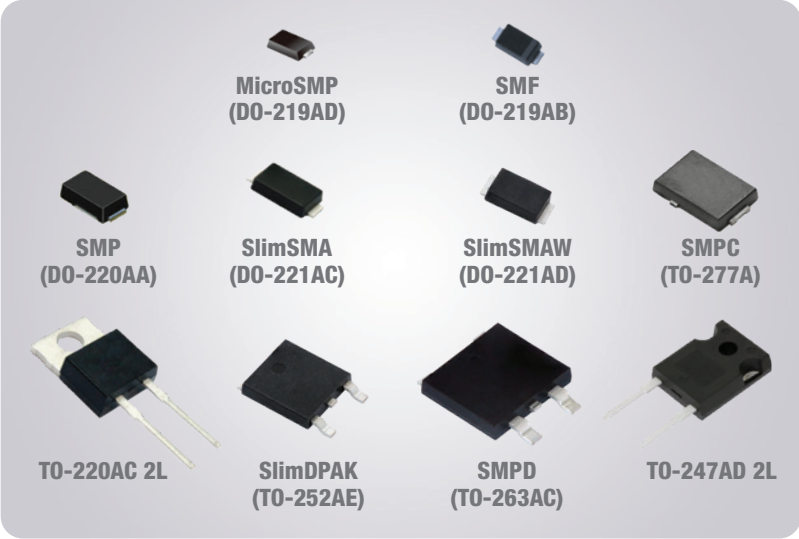
The DNA of tech.™

表面贴装和通孔超快整流器，提供通过 AEC-Q101 认证的版本



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The DNA of tech.™

超快整流器

FRED Pt®

快速恢复外延二极管 (FRED Pt®) 以铂金掺杂技术为基础，允许最高结温达 175℃。通过在器件的 VF/Qrr 比率方面提供高水平的灵活性，塑料封装的 FRED Pt® 器件可用于从 1 A 至 175 A 的所有主要应用。所有组装部件的芯片使用可作为裸片提供的。我们还提供全系列的无卤素元件。

FRED Pt® 经 AEC-Q101 认证产品经过器件平均测试 (PAT) 和统计性良品率限制 (SYL) 分析，以确保其电气参数符合汽车应用的最高质量水平。这些零件在前道操作中使用专用模具，在后道使用专用器件编号，均是根据 PAT 和 SYL 统计标准进行选择，适用于电池充电系统、EV/HEV 汽车、HID 照明和其他汽车应用。

经 AEC-Q101 认证的 FRED Pt® 产品

$I_{F(AV)}$ (A)	Device[1]	Package Type	V_{RRM} (V)	V_F at I_F		I_R at V_{RRM} (µA)	t_{rr} (ns)[2]	I_{FSM} (A)	T_J Max. (ºC)
				(V)	(A)				
V_{RRM} = 100 V									
1	VS-1EFH01HM3/I	SMF (DO-219AB)	100	0.74	1	2	25	35	175
1	VS-1EMH01HM3/5AT	SMA (DO-214AC)	100	0.68	1	2	25	50	175
1	VS-1ENH01HM3/85A	SMP (DO-220AA)	100	0.69	1	2	14	40	175
1	VS-1EQH01HM3/H	MicroSMP (DO-219AD)	100	0.72	1	1	13	30	175
2	VS-2EFH01HM3/I	SMF (DO-219AB)	100	0.75	2	2	25	50	175
2	VS-2EJH01HM3/6A	SlimSMA (DO-221AC)	100	0.72	2	2	25	65	175
2	VS-2EMH01HM3/5AT	SMA (DO-214AC)	100	0.75	2	2	25	50	175
2	VS-2EYH01HM3/I	SlimSMAW (DO-221AD)	100	0.69	2	2	22	60	175
2	VS-2ENH01HM3/85A	SMP (DO-220AA)	100	0.79	2	2	16	40	175
2	VS-2EQH01HM3/H	MicroSMP (DO-219AD)	100	0.82	2	1	19	30	175
3	VS-3ECH01HM3/9AT	SMC (DO-214AB)	100	0.69	3	2	25	130	175
3	VS-3EJH01HM3/6A	SlimSMA (DO-221AC)	100	0.74	3	2	30	85	175
3	VS-3EYH01HM3/I	SlimSMAW (DO-221AD)	100	0.71	3	2	22	70	175
4	VS-4CSH01HM3/86A	SMPC (TO-277A)	100	0.75	2	2	24	90	175
4	VS-4ESH01HM3/86A	SMPC (TO-277A)	100	0.73	4	2	27	130	175
4	VS-4EVH01HM3/I	SlimDPAK (TO-252AE)	100	0.71	4	3	16	100	175
6	VS-6CSH01HM3/86A	SMPC (TO-277A)	100	0.75	3	2	27	150	175
6	VS-6ESH01HM3/86A	SMPC (TO-277A)	100	0.74	6	2	28	150	175
6	VS-6CVH01HM3/I	SlimDPAK (TO-252AE)	100	0.75	3	5	20	140	175
8	VS-8CSH01HM3/86A	SMPC (TO-277A)	100	0.72	4	2	25	130	175
8	VS-8CVH01HM3/I	SlimDPAK (TO-252AE)	100	0.71	4	4	16	100	175
10	VS-10CSH01HM3/86A	SMPC (TO-277A)	100	0.75	5	2	25	130	175
10	VS-10CVH01HM3/I	SlimDPAK (TO-252AE)	100	0.74	5	4	16	200	175
V_{RRM} = 200 V									
1	VS-1EFH02HM3/I	SMF (DO-219AB)	200	0.74	1	2	25	35	175
1	VS-1EMH02HM3/5AT	SMA (DO-214AC)	200	0.68	1	2	25	50	175
1	VS-1ENH02HM3/85A	SMP (DO-220AA)	200	0.69	1	2	14	40	175
1	VS-1EQH02HM3/H	MicroSMP (DO-219AD)	200	0.72	1	1	13	30	175
2	VS-2EFH02HM3/I	SMF (DO-219AB)	200	0.75	2	2	25	50	175

Notes: (1) Bold = new products; (2) See datasheet for t_{rr} test conditions

FRED Pt® AEC-Q101 Qualified Products (cont.)

$I_{F(AV)}$ (A)	Device[1]	Package Type	V_{RRM} (V)	V_F at I_F		I_R at V_{RRM} (µA)	t_{rr} (ns)[2]	I_{FSM} (A)	T_J Max. (°C)
				(V)	(A)				
2	VS-2EGH02HM3_A/I	SMB (DO-214AA)	200	0.66	2	2	24	70	175
2	VS-2EJH02HM3/6A	SlimSMA (DO-221AC)	200	0.72	2	2	25	65	175
2	VS-2EMH02HM3/5AT	SMA (DO-214AC)	200	0.75	2	2	25	50	175
2	VS-2EYH02HM3/I	SlimSMAW (DO-221AD)	200	0.69	2	2	22	60	175
2	VS-2ENH02HM3/85A	SMP (DO-220AA)	200	0.79	2	2	16	40	175
2	VS-2EQH02HM3/H	MicroSMP (DO-219AD)	200	0.82	2	1	19	30	175
3	VS-3ECH02HM3/9AT	SMC (DO-214AB)	200	0.69	3	2	25	130	175
3	VS-3EJH02HM3/6A	SlimSMA (DO-221AC)	200	0.74	3	2	30	85	175
3	VS-3EYH02HM3/I	SlimSMAW (DO-221AD)	200	0.71	3	2	22	70	175
4	VS-4CSH02HM3/86A	SMPC (TO-277A)	200	0.75	2	2	24	90	175
4	VS-4ESH02HM3/86A	SMPC (TO-277A)	200	0.73	4	2	27	130	175
4	VS-4EWH02FNHM3	DPAK (TO-252AA)	200	0.71	4	3	23	80	175
4	VS-4EVH02HM3/I	SlimDPAK (TO-252AE)	200	0.71	4	3	16	100	175
6	VS-6CSH02HM3/86A	SMPC (TO-277A)	200	0.75	3	2	27	150	175
6	VS-6CWH02FNHM3	DPAK (TO-252AA)	200	0.9	3	5	20	50	175
6	VS-6ESH02HM3/86A	SMPC (TO-277A)	200	0.74	6	2	28	150	175
6	VS-MURD620CTHM3	DPAK (TO-252AA)	200	0.78	3	5	20	50	175
6	VS-6DKH02HM3/H	FlatPAK 5 x 6	200	0.71	3	2	25	173	175
6	VS-6CVH02HM3/I	SlimDPAK (TO-252AE)	200	0.75	3	5	20	140	175
8	VS-8DKH02HM3/H	FlatPAK 5 x 6	200	0.7	4	2	25	173	175
8	VS-8CSH02HM3/86A	SMPC (TO-277A)	200	0.72	4	2	25	130	175
8	VS-8CWH02FNHM3	DPAK (TO-252AA)	200	0.81	4	4	23	80	175
8	VS-MURB820-1HM3	TO-262AA	200	0.75	8	5	19	100	175
8	VS-MURB820HM3	D^2PAK (TO-263AB)	200	0.75	8	5	19	100	175
8	VS-8CVH02HM3/I	SlimDPAK (TO-252AE)	200	0.71	4	4	16	100	175
10	VS-10CSH02HM3/86A	SMPC (TO-277A)	200	0.75	5	2	25	130	175
10	VS-MURB1020CT-1HM3	TO-262AA	200	0.87	5	10	19	50	175
10	VS-MURB1020CTHM3	D^2PAK (TO-263AB)	200	0.87	5	10	19	50	175
10	VS-10CVH02HM3/I	SlimDPAK (TO-252AE)	200	0.74	5	4	16	200	175
16	VS-16CDH02HM3/I	SMPD (TO-263AC)	200	0.77	8	2	27	190	175
16	VS-16EDH02HM3/I	SMPD (TO-263AC)	200	0.75	16	5	32	250	175
16	VS-MUrB1620CT-1HM3	TO-262AA	200	0.91	16	15	55	160	175
16	VS-MURB1620CTHM3	D^2PAK (TO-263AB)	200	0.895	8	5	19	100	175
20	VS-20CDH02HM3/I	SMPD (TO-263AC)	200	0.77	10	2	25	210	175
20	VS-MURB2020CT-1HM3	TO-262AA	200	0.85	10	5	19	100	175
20	VS-MURB2020CTHM3	D^2PAK (TO-263AB)	200	0.85	10	5	19	100	175
30	VS-30CTH02SHM3	D^2PAK (TO-263AB)	200	0.78	15	10	30	200	175
80	VS-80EBU02HF4	PowerTab®	200	0.77	80	50	32	800	175
150	VS-150EBU02HF4	PowerTab®	200	0.77	150	50	34	1600	175

Notes: (1) Bold = new products; (2) See datasheet for t_{rr} test conditions

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FRED Pt® AEC-Q101 Qualified Products (cont.)

$I_{F(AV)}$ (A)	Device[1]	Package Type	V_{RRM} (V)	V_F at I_F		I_R at V_{RRM} (µA)	t_{rr} (ns)[2]	I_{FSM} (A)	T_J Max. (°C)
				(V)	(A)				
V_{RRM} = 300 V									
8	VS-8ETH03SHM3	D²PAK (TO-263AB)	300	0.83	8	20	27	100	175
8	VS-8ETH03-1HM3	TO-262AA	300	0.83	8	20	27	100	175
15	VS-15ETH03SHM3	D²PAK (TO-263AB)	300	0.85	15	40	40	140	175
20	VS-20CTH03-1HM3	TO-262AA	300	0.85	10		20	23	120
20	VS-20CTH03SHM3	D²PAK (TO-263AB)	300	0.85	10	20	23	120	175
V_{RRM} = 400 V									
8	VS-8ETU04-1HM3	TO-262AA	400	0.94	8	10	35	100	175
8	VS-8ETU04HN3	TO-220AC	400	0.94	8	10	35	100	175
8	VS-8ETU04SHM3	D²PAK (TO-263AB)	400	0.94	8	10	35	100	175
30	**VS-30CPU04LHN3**	TO-247AD 3L	400	0.93	15	10	46	200	175
60	**VS-60EPU04LHN3**	TO-247AD 2L	400	0.87	60	50	85	600	175
60	**VS-60APU04LHN3**	TO-247AD 3L	400	0.87	60	50	85	600	175
80	VS-80EBU04HF4	PowerTab®	400	0.92	80	50	50	800	175
150	VS-150EBU04HF4	PowerTab®	400	0.9	150	50	60	1500	175
V_{RRM} = 600 V									
1	VS-1EFU06HM3/I	SMF (DO-219AB)	600	0.83	1	3	55	30	175
2	VS-2EFU06HM3/I	SMF (DO-219AB)	600	0.95	2	3	55	30	175
3	VS-3EGU06WHM3/5BT	SMB (DO-214AA)	600	0.99	3	3	41	55	175
3	VS-3EJU06HM3/6A	SlimSMA (DO-221AC)	600	0.99	3	3	45	43	175
5	VS-5EWH06FNHM3	DPAK (TO-252AA)	600	1.3	5	5	18	70	175
6	VS-6ESH06HM3/86A	SMPC (TO-277A)	600	1.05	6	50	33	90	175
6	VS-6ESU06HM3/86A	SMPC (TO-277A)	600	0.95	6	50	42	120	175
6	VS-6EWH06FNHM3	DPAK (TO-252AA)	600	1.26	6	50	18	70	175
6	VS-6EWX06FNHM3	DPAK (TO-252AA)	600	1.65	6	20	14	50	175
6	VS-6EVH06HM3/I	SlimDPAK (TO-252AE)	600	1.26	6	5	16	70	175
6	VS-6EVL06HM3/I	SlimDPAK (TO-252AE)	600	0.98	6	5	34	80	175
6	VS-6EVX06HM3/I	SlimDPAK (TO-252AE)	600	1.65	6	5	14	50	175
8	VS-8ETH06-1HM3	TO-262AA	600	1.3	8	50	18	90	175
8	VS-8ETL06SHM3	D²PAK (TO-263AB)	600	0.81	8	5	60	175	175
8	VS-8ETH06HN3	TO-220AC	600	1.3	8	50	18	90	175
8	VS-8ETH06SHM3	D²PAK (TO-263AB)	600	1.3	8	10	35	100	175
8	VS-8EWH06FNHM3	DPAK (TO-252AA)	600	1.3	8	50	18	90	175
8	VS-8EVH06HM3/I	SlimDPAK (TO-252AE)	600	1.3	8	20	16	90	175
8	VS-8EVL06HM3/I	SlimDPAK (TO-252AE)	600	0.98	8	20	34	130	175
8	VS-8EVX06HM3/I	SlimDPAK (TO-252AE)	600	1.4	8	20	14	80	175
8	**VS-8ETL06S2LHM3**	D²PAK 2L (TO-263AB 2L)	600	0.81	8	8	170	175	175
10	VS-10CDU06HM3/I	SMPD (TO-263AC)	600	1	5	3	35	110	175

Notes: (1) Bold = new products; (2) See datasheet for t_{rr} test conditions

FRED Pt® AEC-Q101 Qualified Products (cont.)

$I_{F(AV)}$ (A)	Device[1]	Package Type	V_{RRM} (V)	V_F at I_F		I_R at V_{RRM} (µA)	t_{rr} (ns)[2]	I_{FSM} (A)	T_J Max. (°C)
				(V)	(A)				
12	VS-12CDU06HM3/I	SMPD (TO-263AC)	600	0.89	6	5	45	200	175
15	VS-15ETH06HN3	TO-220AC	600	1.3	15	50	22	120	175
15	VS-15ETL06HN3	TO-220AC	600	0.85	15	10	60	250	175
15	VS-ETH1506-1HM3	TO-262AA	600	1.25	15	15	21	160	175
15	VS-ETH1506SHM3	D²PAK (TO-263AB)	600	1.25	15	15	21	160	175
15	VS-ETL1506-1HM3	TO-262AA	600	0.85	15	15	60	200	175
15	VS-ETL1506SHM3	D²PAK (TO-263AB)	600	0.85	15	15	60	200	175
15	VS-ETU1506-1HM3	TO-262AA	600	1.1	15	15	24	160	175
15	VS-ETU1506SHM3	D²PAK (TO-263AB)	600	1.1	15	15	24	160	175
15	**VS-ETU1506S2LHM3**	D²PAK 2L (TO-263AB 2L)	600	1.1	15	15	40	160	175
15	VS-15EVH06HM3/I	SlimDPAK (TO-252AE)	600	1.2	15	20	20	120	175
15	VS-15EVL06HM3/I	SlimDPAK (TO-252AE)	600	0.98	15	10	38	180	175
15	VS-15EVU06HM3/I	SlimDPAK (TO-252AE)	600	1.1	15	20	26	160	175
16	VS-16CDU06HM3/I	SMPD (TO-263AC)	600	0.94	8	5	45	200	175
16	VS-16EDU06HM3/I	SMPD (TO-263AC)	600	0.91	16	15	55	160	175
20	**VS-ETU2006S2LHM3**	D²PAK 2L (TO-263AB 2L)	600	1.2	20	5	42	180	175
30	VS-30CDU06HM3/I	SMPD (TO-263AC)	600	0.9	15	15	55	300	175
30	VS-30EPH06HN3	TO-247AC modified (2 pins)	600	1.34	30	50	28	300	175
30	VS-APH3006HN3	TO-247AC	600	1.4	30	30	27	220	175
30	VS-APU3006HN3	TO-247AC	600	1.15	30	30	30	220	175
30	VS-EPH3006HN3	TO-247AC modified (2 pins)	600	1.4	30	30	27	220	175
30	VS-EPU3006HN3	TO-247AC modified (2 pins)	600	1.15	30	30	30	220	175
30	VS-ETH3006-1HM3	TO-262AA	600	1.4	30	30	27	180	175
30	VS-ETH3006SHM3	D²PAK (TO-263AB)	600	1.4	30	30	27	180	175
30	VS-ETU3006-1HM3	TO-262AA	600	1.15	30	30	30	200	175
30	VS-ETU3006SHM3	D²PAK (TO-263AB)	600	1.15	30	30	30	200	175
30	**VS-ETL3006S2LHM3**	D²PAK 2L (TO-263AB 2L)	600	0.9	30	30	134	280	175
30	**VS-ETU3006S2LHM3**	D²PAK 2L (TO-263AB 2L)	600	1.15	30	30	45	200	175
30	VS-APH3006LHN3	TO-247AD 3L	600	1.4	30	30	26	240	175
30	VS-EPH3006LHN3	TO-247AD 2L	600	1.4	30	30	26	240	175
30	VS-C4PU3006LHN3	TO-247AD 3L	600	1.17	15	15	60	200	175
30	VS-C4PH3006LHN3	TO-247AD 3L	600	1.35	15	15	50	200	175
30	VS-E4PH3006LHN3	TO-247AD 2L	600	1.4	30	50	55	240	175
30	VS-E4PU3006LHN3	TO-247AD 2L	600	1.2	30	50	65	240	175
30	VS-APU3006LHN3	TO-247AD 3L	600	1.15	30	30	30	250	175
30	VS-EPU3006LHN3	TO-247AD 2L	600	1.4	30	30	30	220	175

Notes: (1) Bold = new products; (2) See datasheet for t_{rr} test conditions

FRED Pt® AEC-Q101 Qualified Products (cont.)

$I_{F(AV)}$ (A)	Device[1]	Package Type	V_{RRM} (V)	V_F at I_F		I_R at V_{RRM} (µA)	t_{rr} (ns)[2]	I_{FSM} (A)	T_J Max. (°C)
				(V)	(A)				
60	VS-60APU06HN3	TO-247AC	600	1.2	60	50	50	600	175
60	VS-60EPU06HN3	TO-247AC	600	1.2	30	50	55	480	175
60	VS-C4PH6006LHN3	TO-247AD 3L	600	1.44	30	50	65	480	175
60	VS-C4PU6006LHN3	TO-247AD 3L	600	1.23	30	30	26	240	175
60	VS-CPU6006LHN3	TO-247AD 3L	600	1.1	60	50	68	250	175
60	VS-E4PH6006LHN3	TO-247AD 2L	600	1.4	60	50	68	425	175
60	VS-E4PU6006LHN3	TO-247AD 2L	600	1.33	60	50	74	450	175
60	VS-EPU6006LHN3	TO-247AD 2L	600	1.1	60	30	32	600	175
80	VS-EBU8006HF4	PowerTab®	600	1.13	80	8	46	750	175
150	VS-EBU15006HF4	PowerTab®	600	1.08	150	8	50	1200	175
V_{RRM} = 600 V (Generation 5)									
15	**VS-E5TH1506S2LHM3**	D²PAK 2L (TO-263AB 2L)	600	1.15	15	10	31	200	175
15	**VS-E5TX1506S2LHM3**	D²PAK 2L (TO-263AB 2L)	600	1.3	15	10	23	185	175
20	**VS-E5TH2106S2LHM3**	D²PAK 2L (TO-263AB 2L)	600	1.23	20	10	39	200	175
20	**VS-E5TX2106S2LHM3**	D²PAK 2L (TO-263AB 2L)	600	1.4	20	10	33	185	175
30	**VS-E5TH3006S2LHM3**	D²PAK 2L (TO-263AB 2L)	600	1.15	30	10	41	330	175
30	**VS-E5TX3006S2LHM3**	D²PAK 2L (TO-263AB 2L)	600	1.3	30	10	39	310	175
15	**VS-E5TH1506THN3**	TO-220AC 2L	600	1.15	15	10	31	200	175
15	**VS-E5TX1506THN3**	TO-220AC 2L	600	1.3	15	10	23	185	175
30	**VS-E5TH3006THN3**	TO-220AC 2L	600	1.15	30	20	41	330	175
30	**VS-E5TX3006THN3**	TO-220AC 2L	600	1.3	30	20	39	310	175
30	**VS-E5PH3006LHN3**	TO-247AD 2L	600	1.15	30	20	41	330	175
30	**VS-A5PH3006LHN3**	TO-247AD 3L	600	1.15	30	20	41	330	175
30	**VS-E5PX3006LHN3**	TO-247AD 2L	600	1.3	30	20	39	310	175
30	**VS-A5PX3006LHN3**	TO-247AD 3L	600	1.3	30	20	39	310	175
60	**VS-E5PH6006LHN3**	TO-247AD 2L	600	1.2	60	25	49	500	175
60	**VS-A5PH6006LHN3**	TO-247AD 3L	600	1.2	60	25	49	500	175
60	**VS-E5PX6006LHN3**	TO-247AD 2L	600	1.4	60	25	44	480	175
60	**VS-A5PX6006LHN3**	TO-247AD 3L	600	1.4	60	25	44	480	175
75	**VS-E5PH7506LHN3**	TO-247AD 2L	600	1.2	75	25	52	615	175
75	**VS-E5PX7506LHN3**	TO-247AD 2L	600	1.4	75	25	44	565	175
V_{RRM} = 650 V									
30	VS-ETH3007THN3	TO-220AC 2L	650	1.4	30	30	37	210	175
30	VS-ETX3007THN3	TO-220AC 2L	650	1.6	30	30	27	210	175
V_{RRM} = 1200 V									
8	VS-8ETU12HN3	TO-220AC	1200	1.95	8	55	42	80	175
15	VS-15ETU12HN3	TO-220AC	1200	2.25	15	80	44	150	175

Notes: (1) Bold = new products; (2) See datasheet for t_{rr} test conditions

FRED Pt® AEC-Q101 Qualified Products (cont.)

$I_{F(AV)}$ (A)	Device[1]	Package Type	V_{RRM} (V)	V_F at I_F		I_R at V_{RRM} (µA)	t_{rr} (ns)[2]	I_{FSM} (A)	T_J Max. (°C)
				(V)	(A)				
30	VS-30EPU12LHN3	TO-247AD 2L	1200	2.05	30	145	49	300	175
30	VS-30ETU12THN3	TO-220AC 2L	1200	2.05	30	145	57	400	175
50	VS-50EPU12LHN3	TO-247AD 2L	1200	1.95	60	330	50	600	175
75	VS-75EPU12LHN3	TO-247AD 2L	1200	1.95	75	420	62	700	175
V_{RRM} = 1200 V (Generation 5)									
8	**VS-E5TH0812THN3**	TO-220AC 2L	1200	1.8	8	50	100	65	175
8	**VS-E5TX0812THN3**	TO-220AC 2L	1200	2.1	8	50	87	60	175
15	**VS-E5TH1512THN3**	TO-220AC 2L	1200	1.5	15	50	95	125	175
15	**VS-E5TX1512THN3**	TO-220AC 2L	1200	2.1	15	50	96	110	175
15	**VS-E5TH1512S2LHM3**	D²PAK 2L (TO-263AB 2L)	1200	1.7	15	50	95	125	175
15	**VS-E5TX1512S2LHM3**	D²PAK 2L (TO-263AB 2L)	1200	2.1	15	50	96	110	175
20	**VS-E5TH2112S2LHM3**	D²PAK 2L (TO-263AB 2L)	1200	1.88	20	50	125	125	175
20	**VS-E5TX2112S2LHM3**	D²PAK 2L (TO-263AB 2L)	1200	2.4	20	50	115	110	175
30	**VS-E5TH3012S2LHM3**	D²PAK 2L (TO-263AB 2L)	1200	1.7	30	50	113	240	175
30	**VS-E5TX3012S2LHM3**	D²PAK 2L (TO-263AB 2L)	1200	2.1	30	50	100	190	175
30	**VS-E5TH3012THN3**	TO-220AC 2L	1200	1.7	30	50	113	240	175
30	**VS-E5TX3012THN3**	TO-220AC 2L	1200	2.1	30	50	100	190	175
30	**VS-C5PH3012LHN3**	TO-247AD 3L	1200	1.7	15	50	95	125	175
30	**VS-C5PX3012LHN3**	TO-247AD 3L	1200	2.1	15	50	96	110	175
30	**VS-E5PH3012LHN3**	TO-247AD 2L	1200	1.7	30	50	113	240	175
30	**VS-E5PX3012LHN3**	TO-247AD 2L	1200	2.1	30	50	100	190	175
60	**VS-E5PH6012LHN3**	TO-247AD 2L	1200	1.7	60	50	130	425	175
60	**VS-E5PX6012LHN3**	TO-247AD 2L	1200	2.1	60	50	120	370	175

Notes: (1) Bold = new products; (2) See datasheet for t_{rr} test conditions

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FRED Pt® Standard Products

$I_{F(AV)}$ (A)	Device[1]	Package Type	V_{RRM} (V)	V_F at I_F		I_R at V_{RRM} (µA)	t_{rr} (ns)[2]	I_{FSM} (A)	T_J Max. (°C)
				(V)	(A)				
V_{RRM} = 100 V									
1	VS-1EFH01-M3/I	SMF (DO-219AB)	100	0.74	1	2	25	35	175
1	VS-1EMH01-M3/5AT	SMA (DO-214AC)	100	0.68	1	2	25	50	175
1	VS-1ENH01-M3/85A	SMP (DO-220AA)	100	0.69	1	2	14	40	175
1	**VS-1EQH01-M3/H**	MicroSMP (DO-219AD)	100	0.72	1	1	13	30	175
2	**VS-2EQH01-M3/H**	MicroSMP (DO-219AD)	100	0.82	2	1	19	30	175
2	VS-2EFH01-M3/I	SMF (DO-219AB)	100	0.75	2	2	25	50	175
2	VS-2EJH01-M3/6A	SlimSMA (DO-221AC)	100	0.72	2	2	25	65	175
2	VS-2EMH01-M3/5AT	SMA (DO-214AC)	100	0.75	2	2	25	50	175
2	VS-2EGH01-M3/5BT	SMB (DO-214AA)	100	0.66	2	2	24	70	175
2	VS-2EYH01-M3/I	SlimSMAW (DO-221AD)	100	0.69	2	2	22	60	175
2	VS-2ENH01-M3/85A	SMP (DO-220AA)	100	0.79	2	2	16	40	175
3	VS-3ECH01-M3/9AT	SMC (DO-214AB)	100	0.69	3	2	25	130	175
3	VS-3EJH01-M3/6A	SlimSMA (DO-221AC)	100	0.74	3	2	30	85	175
3	VS-3EYH01-M3/I	SlimSMAW (DO-221AD)	100	0.71	3	2	22	70	175
4	VS-4CSH01-M3/86A	SMPC (TO-277A)	100	0.75	2	2	24	90	175
4	VS-4ESH01-M3/86A	SMPC (TO-277A)	100	0.73	4	2	27	130	175
4	VS-4EVH01-M3/I	SlimDPAK (TO-252AE)	100	0.71	4	3	16	100	175
6	VS-6CSH01-M3/86A	SMPC (TO-277A)	100	0.75	3	2	27	150	175
6	VS-6ESH01-M3/86A	SMPC (TO-277A)	100	0.74	6	2	28	150	175
6	VS-6CVH01-M3/I	SlimDPAK (TO-252AE)	100	0.75	3	3	20	140	175
8	VS-8CSH01-M3/86A	SMPC (TO-277A)	100	0.72	4	2	25	130	175
8	VS-8CVH01-M3/I	SlimDPAK (TO-252AE)	100	0.71	4	4	16	100	175
10	VS-10CSH01-M3/86A	SMPC (TO-277A)	100	0.75	5	2	25	130	175
10	VS-10CVH01-M3/I	SlimDPAK (TO-252AE)	100	0.74	5	4	16	200	175
V_{RRM} = 200 V									
1	VS-1EFH02-M3/I	SMF (DO-219AB)	200	0.74	1	2	25	35	175
1	VS-1EMH02-M3/5AT	SMA (DO-214AC)	200	0.68	1	2	25	50	175
1	VS-1ENH02-M3/85A	SMP (DO-220AA)	200	0.69	1	2	14	40	175
1	**VS-1EQH02-M3/H**	MicroSMP (DO-219AD)	200	0.72	1	1	13	30	175
2	**VS-2EQH02-M3/H**	MicroSMP (DO-219AD)	200	0.82	2	1	19	30	175
2	VS-2EFH02-M3/I	SMF (DO-219AB)	200	0.75	2	2	25	50	175
2	VS-2EJH02-M3/6A	SlimSMA (DO-221AC)	200	0.72	2	2	25	65	175
2	VS-2EMH02-M3/5AT	SMA (DO-214AC)	200	0.75	2	2	25	50	175
2	VS-2EGH02-M3/5BT	SMB (DO-214AA)	200	0.66	2	2	24	70	175
2	VS-2EYH02-M3/I	SlimSMAW (DO-221AD)	200	0.69	2	2	22	60	175
2	VS-2ENH02-M3/85A	SMP (DO-220AA)	200	0.79	2	2	16	40	175
3	VS-3ECH02-M3/9AT	SMC (DO-214AB)	200	0.69	3	2	25	130	175
3	VS-3EJH02-M3/6A	SlimSMA (DO-221AC)	200	0.74	3	2	30	85	175

Notes: (1) Bold = new products; (2) See datasheet for t_{rr} test conditions

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FRED Pt® Standard Products (cont.)

$I_{F(AV)}$ (A)	Device[1]	Package Type	V_{RRM} (V)	V_F at I_F		I_R at V_{RRM} (µA)	t_{rr} (ns)[2]	I_{FSM} (A)	T_J Max. (°C)
				(V)	(A)				
3	VS-3EYH02-M3/I	SlimSMAW (DO-221AD)	200	0.71	3	2	22	70	175
4	VS-4CSH02-M3/86A	SMPC (TO-277A)	200	0.75	2	2	24	90	175
4	VS-4ESH02-M3/86A	SMPC (TO-277A)	200	0.73	4	2	27	130	175
4	VS-4EWH02FN-M3	DPAK (TO-252AA)	200	0.71	4	3	23	80	175
4	VS-4EVH02-M3/I	SlimDPAK (TO-252AE)	200	0.71	4	3	16	100	175
6	VS-6CSH02-M3/86A	SMPC (TO-277A)	200	0.75	3	2	27	150	175
6	VS-6CWH02FN-M3	DPAK (TO-252AA)	200	0.9	3	5	20	50	175
6	VS-6ESH02-M3/86A	SMPC (TO-277A)	200	0.74	6	2	28	150	175
6	VS-MURD620CT-M3	DPAK (TO-252AA)	200	0.78	3	5	20	50	175
6	VS-6DKH02-M3/H	FlatPAK 5 x 6	200	0.71	3	2	25	173	175
6	VS-6CVH02-M3/I	SlimDPAK (TO-252AE)	200	0.75	3	3	20	140	175
8	VS-8DKH02-M3/H	FlatPAK 5 x 6	200	0.7	4	2	25	173	175
8	VS-8CSH02-M3/86A	SMPC (TO-277A)	200	0.72	4	2	25	130	175
8	VS-8CWH02FN-M3	DPAK (TO-252AA)	200	0.71	4	4	23	80	175
8	VS-8EWH02FN-M3	DPAK (TO-252AA)	200	0.75	8	5	23	140	175
8	VS-8CVH02-M3/I	SlimDPAK (TO-252AE)	200	0.71	4	4	16	100	175
8	VS-MUR820-M3	TO-220AC 2L	200	0.8	8	5	19	100	175
8	VS-MURB820-1-M3	TO-262AA	200	0.8	8	5	19	100	175
8	VS-MURB820-M3	D²PAK (TO-263AB)	200	0.8	8	5	19	100	175
10	VS-10CSH02-M3/86A	SMPC (TO-277A)	200	0.75	5	2	25	130	175
10	VS-MUR1020CT-M3	TO-220AB 3L	200	0.87	5	10	19	50	175
10	VS-MURB1020CT-1-M3	TO-262AA	200	0.87	5	5	19	50	175
10	VS-MURB1020CT-M3	D²PAK (TO-263AB)	200	0.87	5	5	19	50	175
10	VS-10CVH02-M3/I	SlimDPAK (TO-252AE)	200	0.74	5	4	16	200	175
15	VS-MUR1520-M3	TO-220AC 2L	200	0.78	15	10	22	200	175
15	VS-MURB1520-1-M3	TO-262AA	200	0.78	15	10	22	200	175
15	VS-MURB1520-M3	D²PAK (TO-263AB)	200	0.78	15	10	22	200	175
16	VS-16CDH02-M3/I	SMPD (TO-263AC)	200	0.77	8	2	27	190	175
16	VS-16EDH02-M3/I	SMPD (TO-263AC)	200	0.75	16	15	32	250	175
16	VS-MUR1620CT-M3	TO-220AB 3L	200	0.78	8	5	19	100	175
16	VS-MURB1620CT-M3	D²PAK (TO-263AB)	200	0.78	8	5	19	100	175
20	VS-20CDH02-M3/I	SMPD (TO-263AC)	200	0.77	10	2	25	210	175
20	VS-MUR2020CT-M3	TO-220AB 3L	200	0.78	8	15	19	100	175
20	VS-MURB2020CT-1-M3	TO-262AA	200	0.78	8	15	19	100	175
20	VS-MURB2020CT-M3	D²PAK (TO-263AB)	200	0.78	8	15	19	100	175
30	VS-30CTH02-1-M3	TO-262AA	200	0.78	15	10	30	200	175
30	VS-30CTH02-M3	TO-220AB 3L	200	0.78	15	10	30	200	175
30	VS-30CTH02FP-N3	TO-220 FullPAK 3L	200	0.78	15	10	30	200	175
30	VS-30CTH02S-M3	D²PAK (TO-263AB)	200	0.78	15	10	30	200	175

Notes: (1) Bold = new products; (2) See datasheet for t_{rr} test conditions

FRED Pt® Standard Products (cont.)

$I_{F(AV)}$ (A)	Device[1]	Package Type	V_{RRM} (V)	V_F at I_F		I_R at V_{RRM} (µA)	t_{rr} (ns)[2]	I_{FSM} (A)	T_J Max. (°C)
				(V)	(A)				
30	VS-MUR3020WT-N3	TO-247AC 3L	200	0.85	15	10	22	200	175
60	VS-60APU02-N3	TO-247AC 3L	200	0.81	60	50	28	800	175
60	VS-60CPU02-N3	TO-247AC 3L	200	0.75	30	50	30	300	175
60	VS-60EPU02-N3	TO-247AC 2L	200	0.81	60	50	28	800	175
80	VS-80CPU02-N3	TO-247AC 3L	200	0.8	40	5	34	330	175
80	VS-80EBU02	PowerTab®	200	0.79	80	50	32	800	175
150	VS-150EBU02	PowerTab®	200	0.79	150	50	34	1600	175
V_{RRM} = 300 V									
8	VS-8ETH03-1-M3	TO-262AA	300	0.83	8	20	35	100	175
8	VS-8ETH03-M3	TO-220AC 2L	300	0.83	8	20	27	100	175
8	VS-8ETH03S-M3	D²PAK (TO-263AB)	300	0.83	8	20	27	100	175
15	VS-15ETH03-1-M3	TO-262AA	300	0.85	15	40	40	140	175
15	VS-15ETH03-M3	TO-220AC 2L	300	0.85	15	40	32	140	175
15	VS-15ETH03S-M3	D²PAK (TO-263AB)	300	0.85	15	40	40	140	175
20	VS-20CTH03-1-M3	TO-262AA	300	0.85	10	20	35	120	175
20	VS-20CTH03-M3	TO-220AC 3L	300	0.85	10	20	31	120	175
20	VS-20CTH03FP-N3	TO-220 FullPAK 3L	300	0.85	10	20	31	120	175
20	VS-20CTH03S-M3	D²PAK (TO-263AB)	300	0.85	10	20	35	120	175
30	VS-30CPH03-N3	TO-247AC 3L	300	0.85	15	40	32	140	175
30	VS-30CTH03-M3	TO-220AB 3L	300	0.85	15	40	32	150	175
30	VS-30EPH03-N3	TO-247AC 2L	300	0.9	30	60	38	300	175
60	VS-60APH03-N3	TO-247AC 3L	300	0.85	60	10	28	450	175
60	VS-60CPH03-N3	TO-247AC 3L	300	0.92	30	60	39	300	175
60	VS-60CPU03W-N3	TO-247AC 3L	300	0.9	30	5	50	300	175
80	VS-80CPH03-N3	TO-247AC 3L	300	0.94	40	10	34	320	175
V_{RRM} = 400 V									
8	VS-8ETU04-1-M3	TO-262AA	400	0.94	8	10	35	100	175
8	VS-8ETU04-M3	TO-220AC 2L	400	0.94	8	10	35	100	175
8	VS-8ETU04S-M3	D²PAK (TO-263AB)	400	0.94	8	10	35	100	175
16	VS-16CTU04-1-M3	TO-262AA	400	0.94	8	10	35	100	175
16	VS-16CTU04-M3	TO-220AB 3L	400	0.94	8	10	35	100	175
16	VS-16CTU04S-M3	D²PAK (TO-263AB)	400	0.94	8	10	35	100	175
30	VS-30CPU04-N3	TO-247AC 3L	400	0.93	15	10	36	200	175
60	VS-60APU04-N3	TO-247AC 3L	400	0.87	60	50	50	600	175
60	VS-60CPU04-N3	TO-247AC 3L	400	0.92	30	10	37	300	175
60	VS-60EPU04-N3	TO-247AC 2L	400	0.87	60	50	50	600	175
80	VS-80EBU04	PowerTab®	400	0.92	80	50	50	800	175
150	VS-150EBU04	PowerTab®	400	0.9	150	50	60	1500	175

Notes: (1) Bold = new products; (2) See datasheet for t_{rr} test conditions

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FRED Pt® Standard Products (cont.)

$I_{F(AV)}$ (A)	Device[1]	Package Type	V_{RRM} (V)	V_F at I_F		I_R at V_{RRM} (µA)	t_{rr} (ns)[2]	I_{FSM} (A)	T_J Max. (°C)
				(V)	(A)				
V_{RRM} = 500 V									
8	VS-ETU0805-M3	TO-220AC 2L	500	0.9	8	9	28	110	175
V_{RRM} = 600 V									
1	VS-1EFU06-M3/I	SMF (DO-219AB)	600	0.83	1	3	55	30	175
2	VS-2EFU06-M3/I	SMF (DO-219AB)	600	0.95	2	3	55	30	175
3	VS-3EGH06-M3/5BT	SMB (DO-214AA)	600	1.2	3	3	35	55	175
3	VS-3EGU06-M3/5BT	SMB (DO-214AA)	600	0.99	3	3	41	55	175
3	VS-3EMH06-M3/5AT	SMA (DO-214AC)	600	1.2	3	3	35	50	175
3	VS-3EMU06-M3/5AT	SMA (DO-214AC)	600	0.99	3	3	41	55	175
3	VS-3EJU06-M3/6A	SlimSMA (DO-221AC)	600	0.99	3	3	45	43	175
4	VS-4ECH06-M3/9AT	SMC (DO-214AB)	600	1.15	4	3	30	90	175
4	VS-4ECU06-M3/9AT	SMC (DO-214AB)	600	0.88	4	3	45	120	175
4	VS-4EGH06-M35BT	SMB (DO-214AA)	600	1.2	4	3	30	55	175
4	VS-4EGU06-M3/5BT	SMB (DO-214AA)	600	0.94	4	3	45	100	175
5	VS-5ECH06-M3/9AT	SMC (DO-214AB)	600	1.2	5	3	30	110	175
5	VS-5ECU06-M3/9AT	SMC (DO-214AB)	600	0.92	5	3	45	130	175
5	VS-5EWH06FN-M3	DPAK (TO-252AA)	600	1.2	5	5	18	70	175
5	VS-5EWL06FN-M3	DPAK (TO-252AA)	600	0.85	5	5	59	80	175
5	VS-5EWX06FN-M3	DPAK (TO-252AA)	600	1.55	5	20	14	50	175
6	VS-6ESH06-M3/86A	SMPC (TO-277A)	600	1.05	6	5	33	90	175
6	VS-6ESU06-M3/86A	SMPC (TO-277A)	600	0.95	6	5	42	120	175
6	VS-6EWH06FN-M3	DPAK (TO-252AA)	600	1.26	6	5	18	70	175
6	VS-6EWL06FN-M3	DPAK (TO-252AA)	600	0.87	6	5	59	80	175
6	VS-6EWX06FN-M3	DPAK (TO-252AA)	600	1.65	6	20	14	50	175
6	VS-6EVH06-M3/I	SlimDPAK (TO-252AE)	600	1.26	6	5	16	70	175
6	VS-6EVL06-M3/I	SlimDPAK (TO-252AE)	600	0.98	6	5	34	80	175
6	VS-6EVX06-M3/I	SlimDPAK (TO-252AE)	600	1.65	6	5	14	50	175
8	VS-8ETH06-1-M3	TO-262AA	600	1.3	8	50	18	90	175
8	VS-8ETH06-M3	TO-220AC 2L	600	1.3	8	50	18	90	175
8	VS-8ETH06S-M3	D²PAK (TO-263AB)	600	1.3	8	50	18	90	175
8	VS-8ETH06FP-N3	TO-220 FullPAK 2L	600	1.3	8	50	18	90	175
8	VS-8ETL06-1-M3	TO-262AA	600	0.81	8	5	60	175	175
8	VS-8ETL06-M3	TO-220AC 2L	600	0.81	8	5	60	175	175
8	VS-8ETL06FP-N3	TO-220 FullPAK 2L	600	0.81	8	5	60	175	175
8	VS-8ETL06S-M3	D²PAK (TO-263AB)	600	0.81	8	5	60	175	175
8	VS-8ETX06-1-M3	TO-262AA	600	1.4	8	50	15	110	175
8	VS-8ETX06-M3	TO-220AC 2L	600	1.4	8	50	15	110	175
8	VS-8ETX06FP-N3	TO-220 FullPAK 2L	600	1.4	8	50	15	110	175
8	VS-8ETX06S-M3	D²PAK (TO-263AB)	600	1.4	8	50	15	110	175

Notes: (1) Bold = new products; (2) See datasheet for t_{rr} test conditions

FRED Pt® Standard Products (cont.)

$I_{F(AV)}$ (A)	Device[1]	Package Type	V_{RRM} (V)	V_F at I_F		I_R at V_{RRM} (µA)	t_{rr} (ns)[2]	I_{FSM} (A)	T_J Max. (°C)
				(V)	(A)				
8	VS-8EWH06FN-M3	DPAK (TO-252AA)	600	1.3	8	50	18	90	175
8	VS-8EWL06FN-M3	DPAK (TO-252AA)	600	0.81	8	5	60	140	175
8	VS-8EWX06FN-M3	DPAK (TO-252AA)	600	1.4	8	50	15	90	175
8	VS-8EVH06-M3/I	SlimDPAK (TO-252AE)	600	0.98	8	5	16	90	175
8	VS-8EVL06-M3/I	SlimDPAK (TO-252AE)	600	0.98	8	5	34	130	175
8	VS-8EVX06-M3/I	SlimDPAK (TO-252AE)	600	1.4	8	20	14	80	175
8	VS-ETH0806-M3	TO-220AC 2L	600	1.3	8	12	16	80	175
8	VS-ETH0806FP-M3	TO-220 FullPAK 2L	600	1.3	8	12	16	80	175
8	VS-ETL0806-M3	TO-220AC 2L	600	0.84	8	9	65	120	175
8	VS-ETL0806FP-M3	TO-220 FullPAK 2L	600	0.84	8	9	65	120	175
8	VS-ETX0806-M3	TO-220AC 2L	600	1.5	8	30	14	80	175
8	VS-ETX0806FP-M3	TO-220 FullPAK 2L	600	1.5	8	30	14	80	175
12	VS-12CDU06-M3/I	SMPD (TO-263AC)	600	0.89	6	5	45	200	175
12	VS-12EWH06FN-M3	DPAK (TO-252AA)	600	1.34	12	10	18	110	175
15	VS-15AWL06FN-M3	DPAK (TO-252AA)	600	0.85	15	10	60	180	175
15	VS-15ETH06-1-M3	TO-262AA	600	1.3	15	40	22	120	175
15	VS-15ETH06-M3	TO-220AC 2L	600	1.3	15	50	22	120	175
15	VS-15ETH06FP-N3	TO-220 FullPAK 2L	600	1.3	15	50	22	120	175
15	VS-15ETH06S-M3	D²PAK (TO-263AB)	600	1.3	15	50	22	120	175
15	VS-15ETL06-1-M3	TO-262AA	600	0.85	15	10	60	250	175
15	VS-15ETL06-M3	TO-220AC 2L	600	0.85	15	10	60	250	175
15	VS-15ETL06FP-N3	TO-220 FullPAK 2L	600	0.85	15	10	60	250	175
15	VS-15ETL06S-M3	D²PAK (TO-263AB)	600	0.85	15	10	60	250	175
15	VS-15ETX06-1-M3	TO-262AA	600	1.5	15	50	18	170	175
15	VS-15ETX06-M3	TO-220AC 2L	600	1.5	15	50	18	170	175
15	VS-15ETX06FP-N3	TO-220 FullPAK 2L	600	1.5	15	50	18	170	175
15	VS-15ETX06S-M3	D²PAK (TO-263AB)	600	1.5	15		18	170	175
15	VS-15EWH06FN-M3	DPAK (TO-252AA)	600	1.2	15	50	22	120	175
15	VS-15EWL06FN-M3	DPAK (TO-252AA)	600	0.85	15	10	60	180	175
15	VS-15EWX06FN-M3	DPAK (TO-252AA)	600	1.5	15	50	18	120	175
15	VS-ETH1506-1-M3	TO-262AA	600	1.25	15	15	21	160	175
15	VS-ETH1506-M3	TO-220AC 2L	600	1.25	15	15	21	160	175
15	VS-ETH1506FP-M3	TO-220 FullPAK 2L	600	1.25	15	15	21	160	175
15	VS-ETH1506S-M3	D²PAK (TO-263AB)	600	1.25	15	15	21	160	175
15	VS-ETL1506-1-M3	TO-262AA	600	0.85	15	15	60	200	175
15	VS-ETL1506-M3	TO-2220AC 2L	600	0.85	15	15	60	200	175
15	VS-ETL1506FP-M3	TO-220 FullPAK 2L	600	0.85	15	15	60	200	175
15	VS-ETL1506S-M3	D²PAK (TO-263AB)	600	0.85	15	15	60	200	175
15	VS-ETU1506-1-M3	TO-262AA	600	1.1	15	9	24	160	175

Notes: (1) Bold = new products; (2) See datasheet for t_{rr} test conditions

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FRED Pt® Standard Products (cont.)

$I_{F(AV)}$ (A)	Device[1]	Package Type	V_{RRM} (V)	V_F at I_F		I_R at V_{RRM} (µA)	t_{rr} (ns)[2]	I_{FSM} (A)	T_J Max. (°C)
				(V)	(A)				
15	VS-ETU1506-M3	TO-220AC 2L	600	1.1	15	15	24	160	175
15	VS-ETU1506FP-M3	TO-220 FullPAK 2L	600	1.1	15	15	24	160	175
15	VS-ETU1506S-M3	D²PAK (TO-263AB)	600	1.1	15	15	24	160	175
15	VS-ETX1506-1-M3	TO-262AA	600	1.55	15	36	18	120	175
15	VS-ETX1506-M3	TO-220AC 2L	600	1.55	15	36	18	120	175
15	VS-ETX1506FP-M3	TO-220 FullPAK 2L	600	1.55	15	36	18	120	175
15	VS-ETX1506S-M3	D²PAK (TO-263AB)	600	1.55	15	36	18	120	175
15	VS-15EVH06-M3/I	SlimDPAK (TO-252AE)	600	1.2	15	20	20	120	175
15	VS-15EVL06-M3/I	SlimDPAK (TO-252AE)	600	0.98	15	10	38	180	175
15	VS-15EVU06-M3/I	SlimDPAK (TO-252AE)	600	1.1	15	10	26	160	175
16	VS-16CDU06-M3/I	SMPD (TO-263AC)	600	0.94	8	5	45	200	175
16	VS-16EDU06-M3/I	SMPD (TO-263AC)	600	0.91	16	15	55	160	175
30	VS-30CDU06-M3/I	SMPD (TO-263AC)	600	0.9	15	15	55	300	175
30	VS-30EPH06-N3	TO-247AC 2L	600	1.34	30	50	28	300	175
30	VS-30ETH06-1-M3	TO-262AA	600	1.34	30	50	28	200	175
30	VS-30ETH06-M3	TO-220AC 2L	600	1.34	30	50		200	175
30	VS-30ETH06FP-N3	TO-220 FullPAK 2L	600	1.34	30	50	23	200	175
30	VS-30ETH06S-M3	D²PAK (TO-263AB)	600	1.34	30	50	28	200	175
30	VS-APH3006-N3	TO-247AC 3L	600	1.4	30	30	27	220	175
30	VS-APU3006-N3	TO-247AC 3L	600	1.15	30	30	30	220	175
30	VS-EPH3006-N3	TO-247AC 2L	600	1.4	30	30	27	220	175
30	VS-EPH3006L-N3	TO-247AD 2L	600	1.4	30	30	27	220	175
30	VS-EPU3006-N3	TO-247AD 2L	600	1.15	30	30	30	220	175
30	VS-ETH3006-1-M3	TO-262AA	600	1.4	30	30	27	180	175
30	VS-ETH3006-M3	TO-220AC 2L	600	1.4	30	30	27	180	175
30	VS-ETH3006FP-M3	TO-220 FullPAK 2L	600	1.4	30	30	27	180	175
30	VS-ETH3006S-M3	D²PAK (TO-263AB)	600	1.4	30	30	27	180	175
30	VS-ETU3006-1-M3	TO-262AA	600	1.15	30	30	30	200	175
30	VS-ETU3006-M3	TO-220AC 2L	600	1.15	30	30	30	200	175
30	VS-ETU3006FP-M3	TO-220 FullPAK 2L	600	1.15	30	30	30	200	175
30	VS-ETU3006S-M3	D²PAK (TO-263AB)	600	1.15	30	30	30	200	175
30	**VS-ETH3106FP-N3**	TO-220 FullPAK 2L	600	1.4	30	10	90	280	175
30	VS-APH3006L-N3	TO-247AD 3L	600	1.4	30	15	26	240	175
30	VS-C4PU3006L-N3	TO-247AD 3L	600	1.17	15	15	60	200	175
30	VS-C4PH3006L-N3	TO-247AD 3L	600	1.35	15	15	50	200	175
30	VS-E4PH3006L-N3	TO-247AD 2L	600	1.4	30	50	55	240	175
30	VS-E4PU3006L-N3	TO-247AD 2L	600	1.2	30	50	65	240	175
30	VS-APU3006L-N3	TO-247AD 2L	600	1.15	30	30	30	250	175

Notes: (1) Bold = new products; (2) See datasheet for t_{rr} test conditions

FRED Pt® Standard Products (cont.)

$I_{F(AV)}$ (A)	Device[1]	Package Type	V_{RRM} (V)	V_F at I_F		I_R at V_{RRM} (µA)	t_{rr} (ns)[2]	I_{FSM} (A)	T_J Max. (°C)
				(V)	(A)				
30	VS-EPU3006L-N3	TO-247AD 2L	600	1.15	30	30	30	220	175
30	**VS-AZH3106FP-M3**	TO-3PF	600	1.4	30	10	90	280	175
30	**VS-C4ZU3006FP-M3**	TO-3PF	600	1.32	30	15	73	180	175
60	VS-60APU06-N3	TO-247AC 3L	600	1.11	60	50	34	600	175
60	VS-60CPU06-N3	TO-247AC 3L	600	1.1	30	50	27	300	175
60	VS-60EPU06-N3	TO-247AC 2L	600	1.11	60	50	34	600	175
60	VS-APU6006-N3	TO-247AC 3L	600	1.05	60	30	32	600	175
60	VS-EPU6006-N3	TO-247AC 2L	600	1.05	60	30	32	600	175
60	VS-C4PH6006L-N3	TO-247AD 3L	600	1.44	30	50	55	600	175
60	VS-C4PU6006L-N3	TO-247AD 3L	600	1.23	30	50	65	480	175
60	VS-CPU6006L-N3	TO-247AD 3L	600	1.1	30	30	26	500	175
60	VS-E4PH6006L-N3	TO-247AD 2L	600	1.4	60	50	68	425	175
60	VS-E4PU6006L-N3	TO-247AD 2L	600	1.33	60	50	74	450	175
60	VS-EPU6006L-N3	TO-247AD 2L	600	1.1	60	30	32	600	175
60	**VS-CZH6106FP-M3**	TO-3PF	600	1.4	30	10	90	280	175
60	**VS-C4ZU6006FP-M3**	TO-3PF	600	1.2	30	50	70	255	175
150	VS-EBU15006-F4	PowerTab®	600	1.63	150	8	50	1200	175
V_{RRM} = 600 V (Generation 5)									
15	**VS-E5TH1506-M3**	TO-220AC 2L	600	1.15	15	10	31	200	175
15	**VS-E5TX1506-M3**	TO-220AC 2L	600	1.3	15	10	23	185	175
30	**VS-E5TH3006-M3**	TO-220AC 2L	600	1.15	30	20	41	330	175
30	**VS-E5TX3006-M3**	TO-220AC 2L	600	1.3	30	20	39	310	175
30	**VS-E5PH3006L-N3**	TO-247AD 2L	600	1.15	30	20	41	330	175
30	**VS-A5PH3006L-N3**	TO-247AD 3L	600	1.15	30	20	41	330	175
30	**VS-E5PX3006L-N3**	TO-247AD 2L	600	1.3	30	20	39	310	175
30	**VS-A5PX3006L-N3**	TO-247AD 3L	600	1.3	30	20	39	310	175
60	**VS-E5PH6006L-N3**	TO-247AD 2L	600	1.2	60	25	49	500	175
60	**VS-A5PH6006L-N3**	TO-247AD 3L	600	1.2	60	25	49	500	175
60	**VS-E5PX6006L-N3**	TO-247AD 2L	600	1.4	60	25	44	480	175
60	**VS-A5PX6006L-N3**	TO-247AD 3L	600	1.4	60	25	44	480	175
75	**VS-E5PX7606L-N3**	TO-247AD 2L	600	1.5	75	25	45	480	175
75	**VS-E5PH7506L-N3**	TO-247AD 2L	600	1.2	75	25	52	615	175
75	**VS-E5PX7506L-N3**	TO-247AD 2L	600	1.4	75	25	44	565	175
V_{RRM} = 650 V									
30	VS-ETH3007-M3	TO-220AC 2L	650	1.4	30	30	37		175
30	VS-ETX3007-M3	TO-220AC 2L	650	1.6	30	30	35	210	175
30	VS-EPH3007L-N3	TO-247AD 2L	650	1.4	30	30	33	195	175
30	VS-EPX3007L-N3	TO-247AD 2L	650	1.6	30	30	27	170	175
60	VS-EPH6007L-N3	TO-247AD 2L	650	1.4	60	30	65	520	175

Notes: (1) Bold = new products; (2) See datasheet for t_{rr} test conditions

FRED Pt® Gen 5, AEC-Q101 Qualified Products (cont.)

$I_{F(AV)}$ (A)	Device[1]	Package Type	V_{RRM} (V)	V_F at I_F		I_R at V_{RRM} (µA)	t_{rr} (ns)[2]	I_{FSM} (A)	T_J Max. (°C)
				(V)	(A)				
60	VS-EPX6007L-N3	TO-247AD 2L	650	1.6	60	30	40	500	175
V_{RRM} = 1200 V									
8	VS-8ETU12-M3	TO-220AC 2L	1200	1.95	8	55	42	80	175
15	VS-15ETU12-M3	TO-220AC 2L	1200	2.25	15	80	44	150	175
30	VS-30EPU12L-N3	TO-247AD 2L	1200	2.05	30	145	49	300	175
30	VS-30ETU12-M3	TO-220AC 2L	1200	2.05	30	145	49	240	175
50	VS-50EPU12L-N3	TO-247AD 2L	1200	1.95	50	330	57	400	175
75	VS-75EPU12L-N3	TO-247AD 2L	1200	1.95	75	420	62	700	175
V_{RRM} = 1200 V (Generation 5)									
8	**VS-E5TH0812-M3**	TO-220AC 2L	1200	1.8	8	50	100	65	175
8	**VS-E5TX0812-M3**	TO-220AC 2L	1200	2.1	8	50	87	60	175
15	**VS-E5TH1512-M3**	TO-220AC 2L	1200	1.7	15	50	95	125	175
15	**VS-E5TX1512-M3**	TO-220AC 2L	1200	2.1	15	50	96	110	175
30	VS-E5PX3012L-N3	TO-247AD 2L	1200	2.1	30	50	26	210	175
30	VS-E5PH3012L-N3	TO-247AD 2L	1200	1.7	30	50	32	250	175
30	**VS-E5TH3012-M3**	TO-220AC 2L	1200	1.7	30	50	113	240	175
30	**VS-E5TX3012-M3**	TO-220AC 2L	1200	2.1	30	50	100	190	175
30	**VS-C5TH3012-M3**	TO-220AB 3L	1200	1.7	30	50	95	125	175
30	**VS-C5TX3012-M3**	TO-220AB 3L	1200	2.1	30	50	96	110	175
30	**VS-C5PH3012L-N3**	TO-247AD 3L	1200	1.7	30	50	95	125	175
30	**VS-C5PX3012L-N3**	TO-247AD 3L	1200	2.1	30	50	96	110	175
60	VS-E5PX6012L-N3	TO-247AD 2L	1200	2.1	60	50	30	420	175
60	VS-E5PH6012L-N3	TO-247AD 2L	1200	1.7	60	50	38	460	175
60	**VS-C5PH6012L-N3**	TO-247AD 3L	1200	1.7	30	50	113	240	175
60	**VS-C5PX6012L-N3**	TO-247AD 3L	1200	2.1	30	50	100	190	175

Notes: (1) Bold = new products; (2) See datasheet for t_{rr} test conditions

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超快整流器

HEXFRED®

HEXFRED® 技术融合了超快平面技术和专有的肖特基势垒结构，可在任何 di/dt 条件下实现软而快速的恢复行为。这使得 Vishay HEXFRED® 产品成为 IGBT 反并联二极管和在高开关速度下工作的电源的最佳选择。我们还提供全系列的无卤素元件。
HEXFRED® 经 AEC-Q101 认证产品已经过器件平均测试 (PAT) 和统计性良品率限制 (SYL) 分析，以确保其电气参数符合汽车应用的最高质量水平。这些零件在前端操作中使用专用模具，在后端使用专用器件编号，均是根据 PAT 和 SYL 统计标准进行选择，适用于电池充电系统、EH/HEV 汽车、HID 照明和其他汽车应用

HEXFRED® AEC-Q101 Qualified Products

$I_{F(AV)}$ (A)	Device[1]	Package Type	V_{BR} (V)
4	VS-HFA04SD60SHM3	D^2PAK (TO-263AB)	600
8	VS-HFA08TB60HN3	TO-220AC	600
25	VS-HFA25TB60SHM3	D^2PAK (TO-263AB)	600
25	VS-HFA25TB60HN3	TO-220AC	600
30	VS-HFA30TA60CHN3	TO-220AB	600
50	VS-HFA50PA60CHN3	TO-247AC	600
16	VS-HFA16PB120HN3	TO-247AC modified (2 pins)	1200
16	VS-HFA16TB120SHM3	D^2PAK (TO-263AB)	1200
30	VS-HFA30PB120HN3	TO-247AC modified (2 pins)	1200

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HEXFRED® Standard Products

$I_{F(AV)}$ (A)	Device[1]	Package Type	V_{BR} (V)
4	VS-HFA04SD60S-M3	DPAK (TO-252AA)	600
4	VS-HFA04TB60-M3	TO-220AC 2L	600
4	VS-HFA04TB60S-M3	D²PAK (TO-263AB)	600
8	VS-HFA08PB60-N3	TO-247AC 2L	600
8	VS-HFA08SD60S-M3	DPAK (TO-252AA)	600
8	VS-HFA08TA60C-M3	TO-220AB 3L	600
8	VS-HFA08TA60CS-M3	D²PAK (TO-263AB)	600
8	VS-HFA08TB60-M3	TO-220AC 2L	600
8	VS-HFA08TB60S-M3	D²PAK (TO-263AB)	600
15	VS-HFA15PB60-N3	TO-247AC 2L	600
15	VS-HFA15TB60-1-M3	TO-262AA	600
15	VS-HFA15TB60-M3	TO-220AC 2L	600
15	VS-HFA15TB60S-M3	D²PAK (TO-263AB)	600
16	VS-HFA16PA60C-N3	TO-247AC 3L	600
16	VS-HFA16TA60C-M3	TO-220AB 3L	600
16	VS-HFA16TA60CS-M3	D²PAK (TO-263AB)	600
25	VS-HFA25PB60-N3	TO-247AC 2L	600
25	VS-HFA25TB60-M3	TO-220AC 2L	600
25	VS-HFA25TB60S-M3	D²PAK (TO-263AB)	600
30	VS-HFA30PA60C-N3	TO-247AC 3L	600
30	VS-HFA30TA60C-M3	TO-220AB 3L	600
30	VS-HFA25TB60S-M3	D²PAK (TO-263AB)	600
50	VS-HFA50PA60C-N3	TO-247AC 3L	600
6	VS-HFA06PB120-N3	TO-247AC 2L	1200
6	VS-HFA06TB120-M3	TO-220AC 2L	1200
8	VS-HFA08PB120-N3	TO-247AC 2L	1200
8	VS-HFA08TB120S-M3	D²PAK (TO-263AB)	1200
12	VS-HFA12PA120C-N3	TO-247AC 3L	1200
16	VS-HFA16PA120C-N3	TO-247AC 3L	1200
16	VS-HFA16PB120-N3	TO-247AC 2L	1200
16	VS-HFA16TB120-M3	TO-220AC 2L	1200
16	VS-HFA16TB120S-M3	D²PAK (TO-263AB)	1200
30	VS-HFA30PB120-N3	TO-247AC 2L	1200
32	VS-HFA32PA120C-N3	TO-247AC 3L	1200

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Ultrafast Recovery Rectifiers

$I_{F(AV)}$ (A)	Device[1]	Package Type	V_{BR} Range (V)	Max. V_F at I_F		t_{rr} (ns)[2]
				(V)	(A)	
1	ES1A through ES1D	SMA (DO-214AC)	50 to 200	0.92	1	15
1	UG1A through UG1D	DO-41 (DO-204AL)	50 to 200	0.95	1	15
2	BYG22A through BYG22D	SMA (DO-214AC)	50 to 200	1.1	2	25
2	ES2A through ES2D	SMB (DO-214AA)	50 to 200	0.9	2	20
2	SBYV27-50 through SBYV27-200	DO-15 (DO-204AC)	50 to 200	1.07	3	15
2	UG2A through UG2D	DO-15 (DO-204AC)	50 to 200	0.95	2	15
3	ES3A through ES3D	SMC (DO-214AB)	50 to 200	0.9	3	20
3.5	SBYV28-50 through SBYV28-200	DO-201AD	50 to 200	1.1	3.5	20
4	UG4A through UG4D	DO-201AD	50 to 200	0.95	4	20
8	BYW29-50 through BYW29-200	TO-220AC	50 to 200	1.3	20	25
8	BYWB29-50 through BYWB29-200	D²PAK (TO-263AB)	50 to 200	1.3	20	25
8	BYWF29-50 through BYWF29-200	ITO-220AC	50 to 200	1.3	20	25
8	GI1401 through GI1404	TO-220AC	50 to 200	0.975	8	35
8	GIB1401 through GIB1404	D²PAK (TO-263AB)	50 to 200	0.975	8	35
8	UG8AT through UG8DT	TO-220AC	50 to 200	1	8	20
8	UGB8AT through UGB8DT	D²PAK (TO-263AB)	50 to 200	1	8	20
8	UGF8AT through UGF8DT	ITO-220AC	50 to 200	1	8	20
16	GI2401 through GI2404	TO-220AB	50 to 200	0.975	8	35
16	GIB2401 through GIB2404	D²PAK (TO-263AB)	50 to 200	0.975	8	35
18	BYV32-50 through BYV32-200	TO-220AB	50 to 200	1.15	20	25
18	BYVB32-50 through BYVB32-200	D²PAK (TO-263AB)	50 to 200	1.15	20	25
18	BYVF32-50 through BYVF32-200	ITO-220AB	50 to 200	1.15	20	25
18	UG18ACT through UG18DCT	TO-220AB	50 to 200	1.1	9	20
18	UGB18ACT through UGB18DCT	D²PAK (TO-263AB)	50 to 200	1.1	9	20
18	UGF18ACT through UGF18DCT	ITO-220AB	50 to 200	1.1	9	20
30	UG30APT through UG30DPT	TO-247AD	50 to 200	1	15	25
1	EGP10A through EGP10G	DO-41 (DO-204AL)	50 to 400	0.95 / 1.25	1	50
2	EGP20A through EGP20G	DO-15 (DO-204AC)	50 to 400	0.95 / 1.25	2	50
3	EGP31A through EGP31G	DO-201AD	50 to 400	0.95 / 1.25	3	50
5	EGP51A through EGP51G	DO-201AD	50 to 400	0.95 / 1.25	5	50
8	FES8AT through FES8JT	TO-220AC	50 to 600	0.95 / 1.3 / 1.5	8	35 / 50
8	FESB8AT through FESB8JT	D²PAK (TO-263AB)	50 to 600	0.95 / 1.3 / 1.5	8	35 / 50
8	FESF8AT through FESF8JT	ITO-220AC	50 to 600	0.95 / 1.3 / 1.5	8	35 / 50
16	FEP16AT through FEP16JT	TO-220AB	50 to 600	0.95 / 1.3 / 1.5	8	35 / 50
16	FEPB16AT through FEPB16JT	D²PAK (TO-263AB)	50 to 600	0.95 / 1.3 / 1.5	8	35 / 50
16	FEPF16AT through FEPF16JT	ITO-220AB	50 to 600	0.95 / 1.3 / 1.5	8	35 / 50
16	FES16AT through FES16JT	TO-220AC	50 to 600	0.975 / 1.30 /1.5	16	35 / 50
16	FESB16AT through FESB16JT	D²PAK (TO-263AB)	50 to 600	0.975 / 1.30 /1.5	16	35 / 50
16	FESF16AT through FESF16JT	ITO-220AC	50 to 600	0.975 / 1.30 /1.5	16	35 / 50
30	FEP30AP through FEP30JP	TO-247AD	50 to 600	0.95 / 1.3 / 1.5	15	35 / 50

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Ultrafast Recovery Rectifiers (cont.)

$I_{F(AV)}$ (A)	Device[1]	Package Type	V_{BR} Range (V)	Max. V_F at I_F		t_{rr} (ns)[2]
				(V)	(A)	
8	UGF8HT and UGF8JT	ITO-220AC	500 to 600	1.75	8	25
1	UF4001 through UF4007	DO-41 (DO-204AL)	50 to 1000	1.0 / 1.7	1	50 / 75
1	US1A through US1M	SMA (DO-214AC)	50 to 1000	1.0 / 1.7	1	50 / 75
3	UF5400 through UF5408	DO-201AD	50 to 1000	1.0 / 1.7	3	50 / 75
1.2	ES07B	SMF (DO-219AB)	100	0.98	1	25
1	ES1PB, ES1PC, and ES1PD	SMP (DO-220AA)	100 to 200	0.865 / 0.92	0.6 / 1.0	15
1	ESH1B, ESH1C, and ESH1D	SMA (DO-214AC)	100 to 200	0.87 / 0.90	0.7 / 1.0	25
1	ESH1PB, ESH1PC, and ESH1PD	SMP (DO-220AA)	100 to 200	0.86 / 0.90	0.7 / 1.0	25
2	ESH2B, ESH2C, and ESH2D	SMB (DO-214AA)	100 to 200	0.93	2	25
2	ESH2PB, ESH2PC, and ESH2PD	SMP (DO-220AA)	100 to 200	0.98	2	25
2	U2B, U2C, and U2D	SMB (DO-214AA)	100 to 200	0.9	2	20
3	ESH3B, ESH3C, and ESH3D	SMC (DO-214AB)	100 to 200	0.9	3	25
3	U3B, U3C, and U3D	SMC (DO-214AB)	100 to 200	0.9	3	20
10	BYQ28E-100 through BYQ28E-200	TO-220AB	100 to 200	1.1	5	20
10	BYQ28EB-100 through BYQ28EB-200	D²PAK (TO-263AB)	100 to 200	1.1	5	20
10	BYQ28EF-100 through BYQ28EF-200	ITO-220AB	100 to 200	1.1	5	20
10	UG10BCT through UG10DCT	TO-220AB	100 to 200	1.1	5	20
10	UGB10BCT through UGB10DCT	D²PAK (TO-263AB)	100 to 200	1.1	5	20
10	UGF10BCT through UGF10DCT	ITO-220AB	100 to 200	1.1	5	20
1	MURS120	SMB (DO-214AA)	200	0.875	1	25
1.2	ES07D	SMF (DO-219AB)	200	0.98	1	25
3	MURS320	SMC (DO-214AB)	200	0.875	3	25
4	MUR420	DO-201AD	200	0.89	4	25
1.5	BYG20D through BYG20J	SMA (DO-214AC)	200 to 600	1.3	1	75
2	ES2F and ES2G	SMB (DO-214AA)	300 to 400	1.1	2	35
2	UG2F and UG2G	DO-15 (DO-204AC)	300 to 400	1.1	2	35
3	ES3F and ES3G	SMC (DO-214AB)	300 to 400	1.1	3	35
8	BYV29-300 and BYV29-400	TO-220AC	300 to 400	1.25	8	35
8	BYV29B-300 and BYV29B-400	D²PAK (TO-263AB)	300 to 400	1.25	8	35
8	BYV29F-300 and BYV29F-400	ITO-220AC	300 to 400	1.25	8	35
8	UG8FT and UG8GT	TO-220AC	300 to 400	1.25	8	35
8	UGB8FT and UGB8GT	D²PAK (TO-263AB)	300 to 400	1.25	8	35
8	UGF8FT and UGF8GT	ITO-220AC	300 to 400	1.25	8	35
10	BYT28-300 and BYT28-400	TO-220AB	300 to 400	1.3	5	35
10	BYT28B-300 and BYT28B-400	D²PAK (TO-263AB)	300 to 400	1.3	5	35
10	BYT28F-300 and BYT28F-400	ITO-220AB	300 to 400	1.3	5	35
10	UG10FCT and UG10GCT	TO-220AB	300 to 400	1.3	5	35
10	UGB10FCT and UGB10GCT	D²PAK (TO-263AB)	300 to 400	1.3	5	35
10	UGF10FCT and UGF10GCT	ITO-220AB	300 to 400	1.3	5	35

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Ultrafast Recovery Rectifiers (cont.)

$I_{F(AV)}$ (A)	Device[1]	Package Type	V_{BR} Range (V)	Max. V_F at I_F		t_{rr} (ns)[2]
				(V)	(A)	
3	31GF4	DO-201AD	400	1.25	3	30
3	MURS340 and MURS360	SMC (DO-214AB)	400 and 600	1.25 / 1.28	3.0 / 4.0	50
3	MURS340S and MURS360S	SMB (DO-214AA)	400 and 600	1.45	3	50
1	MURS140 and MURS160	SMB (DO-214AA)	400 to 600	1.25	1	50
2	MURS240 and MURS260	SMB (DO-214AA)	400 to 600	1.45	2	50
4	MUR440 and MUR460	DO-201AD	400 to 600	1.28	4	50
8	UG8HT and UG8JT	TO-220AC	500 to 600	1.75	8	25
8	UGB8HT and UGB8JT	D^2PAK (TO-263AB)	500 to 600	1.75	8	25
2	USB260	SMB (DO-214AA)	600	1.6	2	30
3	31GF6	DO-201AD	600	1.6	3	30
1.5	BYG23M	SMA (DO-214AC)	1000	1.7	1	75

Notes: (1) Bold = new products; (2) See datasheet for t_{rr} test conditions

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Avalanche

$I_{F(AV)}$ (A)	Device	Package Type	V_R, V_{RRM}, V_{RWM} (V)	V_F at 25 °C (V)	At I_F (A)	t_{rr} Max. (ns)	E_R (mJ)	At I_R (A)	T_J, T_{STG} Max. (°C)
2	BYG22A	SMA (DO-214AC)	50	1.1	2	25	20	1	150
2	BYG22B	SMA (DO-214AC)	100	1.1	2	25	20	1	150
1	AU1PD	SMP (DO-220AA)	200	1.5	1	75	20	1	175
1.5	BYG20D	SMA (DO-214AC)	200	1.4	1.5	75	20	1	150
2	AU2PD	SMPC (TO-277A)	200	1.9	2	75	20	2.5	175
2	BYG22D	SMA (DO-214AC)	200	1.1	2	25	20	1	150
3	AU3PD	SMPC (TO-277A)	200	1.9	3	75	20	2.5	175
1	AU1PG	SMP (DO-220AA)	400	1.5	1	75	20	1	175
1.5	BYG20G	SMA (DO-214AC)	400	1.4	1.5	75	20	1	150
2	AU2PG	SMPC (TO-277A)	400	1.9	2	75	20	2.5	175
3	AU3PG	SMPC (TO-277A)	400	1.9	3	75	20	2.5	175
1	AU1PJ	SMP (DO-220AA)	600	1.5	1	75	20	1	175
1.5	BYG20J	SMA (DO-214AC)	600	1.4	1.5	75	20	1	150
2	AU2PJ	SMPC (TO-277A)	600	1.9	2	75	20	2.5	175
3	AU3PJ	SMPC (TO-277A)	600	1.9	3	75	20	2.5	175
1	AU1PK	SMP (DO-220AA)	800	1.85	1	75	20	1	175
2	AU2PK	SMPC (TO-277A)	800	2.5	2	75	20	2.5	175
3	AU3PK	SMPC (TO-277A)	800	2.5	3	75	20	2.5	175
1	AU1PM	SMP (DO-220AA)	1000	1.85	1	75	20	1	175
1.5	BYG23M	SMA (DO-214AC)	1000	1.7	1	75	20	1	150
2	AU2PM	SMPC (TO-277A)	1000	2.5	2	75	20	2.5	175
3	AU3PM	SMPC (TO-277A)	1000	2.5	3	75	20	2.5	175
1	BYG23T	SMA (DO-214AC)	1300	1.9	1	75	5	0.4	150

The DNA of tech.™

Avalanche-Rated Sinterglass Diodes

$I_{F(AV)}$ (A)	Device[1]	Package Type	V_R, V_{RRM}, V_{RWM} (V)	V_F at 25 °C (V)	at I_F (A)	t_{rr} Max. (ns)	E_R (mJ) [2]	at I_R (A)
1	SF4001	SOD-57	50	1	1	50	10	0.4
1.9	BYT53A	SOD-57	50	1.1	1	50	20	1
2	BYV27-50	SOD-57	50	1.07	3	25	20	1
3	SF5400	SOD-64	50	1.1	3	50	10	0.4
3.5	BYV28-50	SOD-64	50	1.1	5	30	20	1
1	SF4002	SOD-57	100	1	1	50	10	0.4
1.9	BYT53B	SOD-57	100	1.1	1	50	20	1
2	BYV27-100	SOD-57	100	1.07	3	25	20	1
3	SF5401	SOD-64	100	1.1	3	50	10	0.4
3.5	BYV28-100	SOD-64	100	1.1	5	30	20	1
4	BYV98-50	SOD-64	100	1.1	5	35	20	1
1.9	BYT53C	SOD-57	150	1.1	1	50	20	1
2	BYV27-150	SOD-57	150	1.07	3	25	20	1
3.5	BYV28-150	SOD-64	150	1.1	5	30	20	1
4	BYV98-100	SOD-64	150	1.1	5	35	20	1
4	BYV98-150	SOD-64	150	1.1	5	35	20	1
1	BYV26A	SOD-57	200	2.5	1	30	10	1
1	SF4003	SOD-57	200	1	1	50	10	0.4
1.9	BYT53D	SOD-57	200	1.1	1	50	20	1
2	BYV27-200	SOD-57	200	1.07	3	25	20	1
3	SF5402	SOD-64	200	1.1	3	50	10	0.4
3.5	BYV28-200	SOD-64	200	1.1	5	30	20	1
4	BYV98-200	SOD-64	200	1.1	5	35	20	1
1.9	BYT53F	SOD-57	300	1.1	1	50	20	1
3	SF5403	SOD-64	300	1.1	3	50	10	0.4
1	BYV26B	SOD-57	400	2.5	1	30	10	1
1	SF4004	SOD-57	400	1	1	50	10	0.4
1.9	BYT53G	SOD-57	400	1.1	1	50	20	1
3	SF5404	SOD-64	400	1.1	3	50	10	0.4
3	SF5405	SOD-64	500	1.7	3	75	10	0.4
1	BYV26C	SOD-57	600	2.5	1	30	10	1
1	SF4005	SOD-57	600	1.7	1	75	10	0.4
2	BYV27-600	SOD-57	600	1.35	3	40	10	0.4
3	SF5406	SOD-64	600	1.7	3	75	10	0.4
3.5	BYV28-600	SOD-64	600	1.35	5	50	20	1
1	BYV26D	SOD-57	800	2.5	1	75	10	1
1	SF4006	SOD-57	800	1.7	1	75	10	0.4
3	BYW178	SOD-64	800	1.9	3	60	20	1

Notes: (1) Bold = new products; (2) E_R = pulse energy in avalanche mode

Avalanche-Rated Sinterglass Diodes (cont.)

$I_{F(AV)}$ (A)	Device[1]	Package Type	V_R, V_{RRM}, V_{RWM} (V)	V_F at 25 °C (V)	at I_F (A)	t_{rr} Max. (ns)	E_R (mJ) [2]	at I_R (A)
3	SF5407	SOD-64	800	1.7	3	75	10	0.4
1	BYV26E	SOD-57	1000	2.5	1	75	10	1
1	SF4007	SOD-57	1000	1.7	1	75	10	0.4
3	SF5408	SOD-64	1000	1.7	3	75	10	0.4
1	SF1200	SOD-57	1200	3.4	1	75	10	0.4
1	SF1600	SOD-57	1600	3.4	1	75	10	0.4

Notes: (1) Bold = new products; (2) E_R = pulse energy in avalanche mode