



STANDARD RECOVERY RECTIFIERS

ESD CAPABILITY

- Oxide planar chip technology
- ESD capability
 - Provide class H3B (> 8 kV) performance based on the AEC-Q101-001 human body model (contact mode) and / or JESD22-A114, class 3B



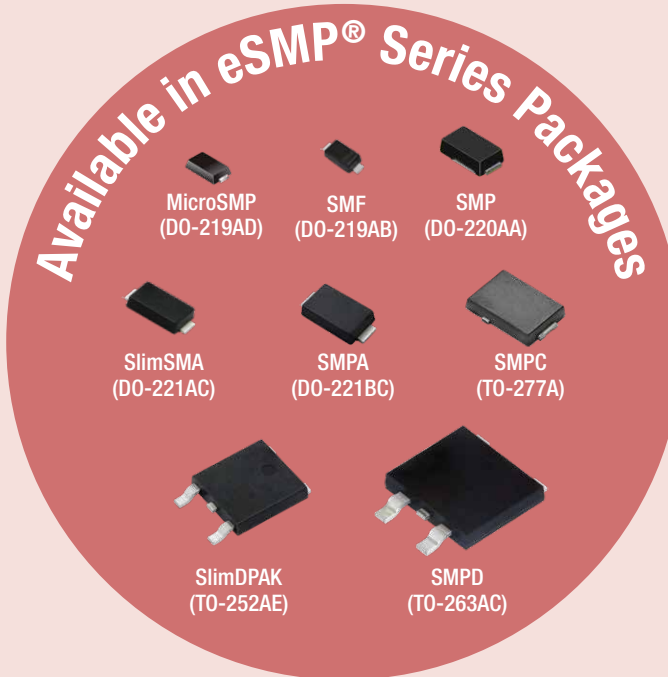
Electrical Static Discharge (ESD)



Current range from 0.7 A to 20 A



Reverse voltage from 100 V to 600 V



APPLICATIONS



- General purpose
- Polarity protection
- Rail to rail protection

Maximum operating junction temperature of +175 °C



Low forward voltage drop, low leakage current

AEC-Q101 Qualified Products have undergone **part average testing (PAT)** and **statistical yield limit (SYL)** analysis to ensure their electrical parameters meet the **highest quality** level for **automotive** applications



AEC-Q101 Qualified

Device ⁽¹⁾	eSMP® Package	I _{F(AV)} (A)	V _{BR} Range (V)	Max V _F at I _F (V)	Max V _F at I _F (A)	AEC-Q101	Automotive Grade
SE07PB to SE07PJ	SMP (DO-220AA)	0.7	100 to 600	1.05	0.7	No	No
MSE07PB to MSE07PJ	MicroSMP (DO-219AD)	0.7	100 to 600	1.08	0.7	Yes	Yes
SE10PB to SE10PJ	SMP (DO-220AA)	1.0	100 to 600	1.05	1.0	Yes	Yes
MSE1PB to MSE1PJ	MicroSMP (DO-219AD)	1.0	100 to 600	1.10	1.0	Yes	Yes
MSQ1PG, MSQ1PJ	MicroSMP (DO-219AD)	1.0	400 to 600	1.20	1.0	Yes	Yes
MSX1PB to MSX1PJ	MicroSMP (DO-219AD)	1.0	100 to 600	1.10	1.0	Yes	Yes
SE10FD to SE10FJ	SMF (DO-219AB)	1.0	200 to 600	1.05	1.0	Yes	Yes
SE15PB to SE15PJ	SMP (DO-220AA)	1.5	100 to 600	1.05	1.5	Yes	Yes
SE15FD to SE15FJ	SMF (DO-219AB)	1.5	200 to 600	1.05	1.0	Yes	Yes
SE20PB to SE20PJ	SMP (DO-220AA)	2.0	100 to 600	1.05	2.0	Yes	Yes
SE20FD to SE20FJ	SMF (DO-219AB)	2.0	200 to 600	1.10	2.0	Yes	Yes
SE20AFB to SE20AFJ	SlimSMA (DO-221AC)	2.0	100 to 600	1.10	2.0	Yes	No

Device ⁽¹⁾	eSMP® Package	I _{F(AV)} (A)	V _{BR} Range (V)	Max V _F at I _F (V)	Max V _F at I _F (A)	AEC-Q101	Automotive Grade
SE20PAB to SE20PAJ	SMPA (DO-221BC)	2.0	100 to 600	1.10	2.0	Yes	No
SE30AFB to SE30AFJ	SlimSMA (DO-221AC)	3.0	100 to 600	1.10	3.0	Yes	No
SE30PAB to SE30PAJ	SMPA (DO-221BC)	3.0	100 to 600	1.16	3.0	Yes	No
SE40PB to SE40PJ	SMPC (TO-277A)	4.0	100 to 600	1.05	4.0	Yes	Yes
SE40PWBC to SE40PWJC	SlimDPAK (TO-252AE)	2 x 2	100 to 600	1.10	2.0	Yes	No
SE50PAB to SE50PAJ	SMPA (DO-221BC)	5.0	100 to 600	1.16	5.0	Yes	No
SE60PWBC to SE60PWJC	SlimDPAK (TO252AE)	2 x 3	100 - 600	1.10	3.0	Yes	No
SE70PB to SE70PJ	SMPC (TO-277A)	7.0	100 to 600	1.05	7.0	Yes	Yes
SE80PWB to SE80PWJ	SlimDPAK (TO252AE)	8.0	100 to 600	1.12	8	Yes	No
SE10DB to SE10DJ	SMPD (TO-263AC)	10	100 to 600	1.15	10	Yes	No
SE100PWB to SE100PWJ	SlimDPAK (TO252AE)	10	100 to 600	1.14	10	Yes	No
SE12DB to SE12DJ	SMPD (TO-263AC)	12	100 to 600	1.15	12	Yes	No
SE20DB to SE20DJ	SMPD (TO-263AC)	20	100 to 600	1.20	20	Yes	No

(1) Reverse voltage, where: A = 50 V, B = 100 V, C = 150 V, D = 200 V, F = 300 V, G = 400 V, H = 500 V, J = 600 V

For Technical Questions: DiodesAmericas@vishay.com, DiodesEurope@vishay.com, or DiodesAsia@vishay.com