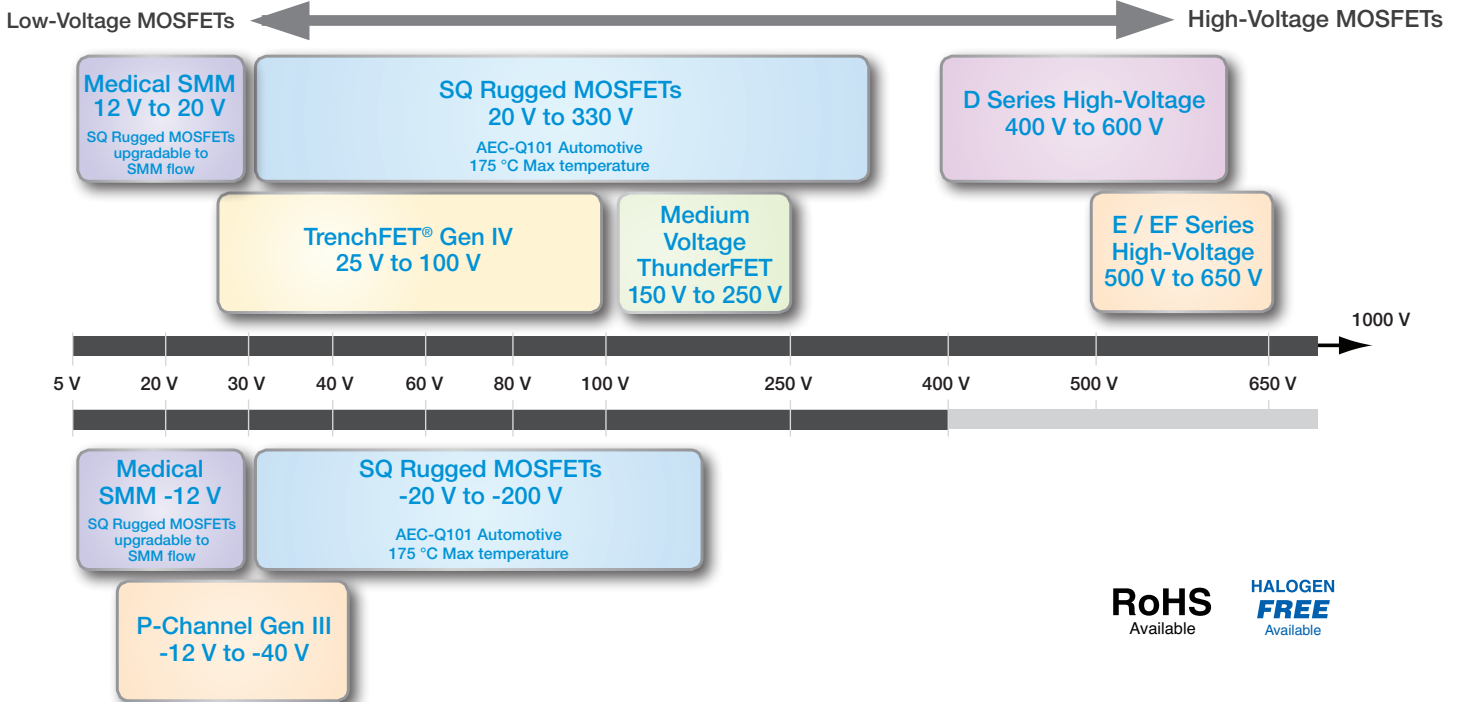




VISHAY SILICONIX

Power MOSFET Product Portfolio

Power MOSFET Voltage Range Options



TrenchFET® Gen IV

Next-Generation Technology MOSFETs

(30 V) for personal computers and peripherals, servers, VRMs, telecom equipment, POL, DC/DC modules, power redundancy, game consoles, DC/AC inverters, industrial



E Series and EF Series

High-Voltage MOSFETs

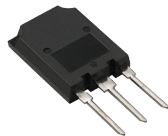
(500 V, 600 V and 650 V) for industrial, lighting, alternative energy applications, SMPS and battery chargers



D Series

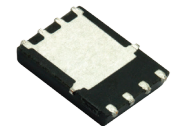
High-Voltage MOSFETs

(400 V and 500 V) for consumer electronics industrial, lighting, battery charger, server, and telecom power supply applications



ThunderFET® and Medium-Voltage MOSFETs

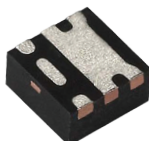
(40 V to 150 V) for industrial, telecom, solar, and motor control applications



P-Channel TrenchFET® Gen III

Industry Lowest On-Resistance for P-Channel MOSFETs

(-12 V to -40 V) for industrial systems, portable devices and mobile computing applications



SQ Rugged Series

AEC-Q101 Automotive Qualified MOSFETs

(20 V to 330 V n-ch and -12 V to -200 V p-ch) for engine controllers, transmission controllers, and motor drive applications










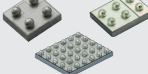








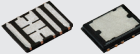
















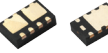






VISHAY SILICONIX

Power MOSFET Product Portfolio

Power MOSFET Package Comparison

Surface-Mount Packages	Maximum Height x Width x Depth	Current Max (A)	$R_{th,JF}$ or $R_{th,JC}$ ($^{\circ}C/W$)	Surface-Mount Packages	Maximum Height x Width x Depth	Current Max (A)	$R_{th,JF}$ or $R_{th,JC}$ ($^{\circ}C/W$)
TO-263-7L 	15.88 x 10.41 x 4.83	200	0.4	SOT-23 	3.04 x 2.64 x 1.12	5.5	50
D ² PAK (TO-263) 	15.88 x 10.41 x 4.83	120	0.4	PowerPAK SC-70 	2.15 x 2.15 x 0.8	12	6.5
DPAK (TO-252) 	10.41 x 6.73 x 2.38	70	1.2	Thin PowerPAK SC-70 	2.15 x 2.15 x 0.65	11	6.5
PowerPAK 8x8L 	8.1 x 8.25 x 1.9	200	1	SC-70 	2.2 x 2.4 x 1.1	4	45
PowerPAK 8x8 	8.1 x 8.1 x 1.05	25	0.62	MICRO FOOT [®] 	see individual datasheet	7	20
SOT-223 	7.29 x 6.7 x 1.8	0.79	40	PowerPAK SC-75 	1.7 x 1.7 x 0.8	8.9	9.5
PowerPAIR [®] 6 x 5 	6.08 x 5.08 x 0.8	40	1.25	Thin PowerPAK SC-75 	1.7 x 1.7 x 0.65	7.5	9.5
PowerPAIR 6 x 3.7 	6.08 x 3.81 x 0.8	30	2.6	SC-75A 	1.6 x 1.7 x 0.8	0.5	
PowerPAIR 3 x 3 	3 x 3 x 0.8	15	4	SC-89 	1.7 x 1.7 x 0.6	1.75	
PolarPAK [®] 	6.3 x 5.31 x 0.85	45	1 + 1	PowerPAK 0806 	0.85 x 0.65 x 0.4	1	
PowerPAK [®] SO-8L 	6.25 x 5.25 x 1.14	26	1.8	Through-Hole	Maximum Height x Width x Depth	Current Max (A)	$R_{th,JF}$ or $R_{th,JC}$ ($^{\circ}C/W$)
PowerPAK SO-8 	6.2 x 5.26 x 1.2	58	1.2	Super 247 (RoHS only) 	20.8 x 16.1 x 5.3	47	0.23
SO-8 	5 x 6.2 x 1.75	31	16	TO-247 	20.7 x 15.87 x 5.31	70	0.3
TSSOP-8 	3.1 x 6.6 x 1.2	11	52	TO-220 Full PAK 	16.12 x 10.63 x 4.83	37	3
PowerPAK 1212-8 	3.4 x 3.4 x 1.2	31	2.4	Thin-lead TO-220 FullPAK 	15.3 x 10.3 x 4.7	26	3.6
PowerPAK 1212-8S 	3.3 x 3.3 x 0.83	31	2.2	TO-220 	15.49 x 10.51 x 4.65	90	0.6
Thin PowerPAK 1212-8T 	3.4 x 3.4 x 0.8	31	2.4	l ² PAK (TO-262) 	11.3 x 10.67 x 4.83	50	0.8
TSOP-6 	3.1 x 2.98 x 1.1	7.5	30	HVMDIP 	10.79 (length) x 5 x 3.37 (height)	2.4	120
PowerPAK ChipFET [®] 	3.08 x 1.98 x 0.85	11.6	4	IPAK (TO-251) 	7.49 x 6.73 x 2.39	14	1.1
1206-8 ChipFET 	3.1 x 1.8 x 1.1	9.5	20				