

Vishay General Semiconductor

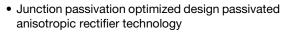
Surface Mount PAR® Transient Voltage Suppressors

High Temperature Stability and High Reliability Conditions



PRIMARY CHARACTERISTICS				
V_{WM}	10 V to 36 V			
V_{BR}	11.1 V to 44.2 V			
P _{PPM} (10 x 1000 μs)	4600 W			
P _{PPM} (10 x 10 000 μs)	3600 W			
P_{D}	6 W			
I _{FSM}	600 A			
T _J max.	175 °C			
Polarity	Uni-directional			
Package	DO-218AB			

FEATURES





 T_J = 175 °C capability suitable for high reliability and automotive requirement

(e3)

· Available in uni-directional polarity only

RoHS

- Low leakage current
- Low forward voltage drop
- High surge capability
- Meets ISO7637-2 surge specification (varied by test condition)
- Meets MSL level 1, per J-STD-020, LF maximum peak of 245 °C
- AEC-Q101 qualified
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

TYPICAL APPLICATIONS

Use in sensitive electronics protection against voltage transients induced by inductive load switching and lighting, especially for automotive load dump protection application.

MECHANICAL DATA

Case: DO-218AB

Molding compound meets UL 94 V-0 flammability rating Base P/NHE3 - RoHS-compliant, AEC-Q101 qualified Base P/NHE3_X - RoHS-compliant and AEC-Q101 qualified ("X" denotes revision code e.g. A, B, ..., revision code only applicable for part number with \pm 5 % tolerance)

Terminals: matte tin plated leads, solderable per J-STD-002 and JESD 22-B102

HE3 suffix meets JESD 201 class 2 whisker test

Polarity: heatsink is anode

MAXIMUM RATINGS (T _C = 25 °C unless otherwise noted)						
PARAMETER	SYMBOL	VALUE	UNIT			
Peak pulse power dissipation	with 10/1000 µs waveform	В	4600	W		
	with 10/10 000 µs waveform	P _{PPM}	3600	VV		
Power dissipation on infinite heats	P _D	6.0	W			
Peak pulse current with 10/1000 µ	I _{PPM} ⁽¹⁾	See next table	Α			
Peak forward surge current 8.3 m	I _{FSM}	600	Α			
Operating junction and storage te	T _J , T _{STG}	-55 to +175	°C			

Note

⁽¹⁾ Non-repetitive current pulse at T_A = 25 °C



www.vishay.com

Vishay General Semiconductor

DEVICE TYPE STAND-OFF Vol.TAGE Vol. (m/A) STAND-OFF Vol. (m/A) MAXIMUM REVERSE LERKAGE LER	ELECTR	ELECTRICAL CHARACTERISTICSS (T _C = 25 °C unless otherwise noted)							
MIN. MAX. MAX.		BREAKDOWN VOLTAGE V _{BR} (V)		CURRENT I _T	VOLTAGE V _{WM}	REVERSE LEAKAGE	LEAKAGE AT V _{WM}	PULSE CURRENT AT 10/1000 µs	CLAMPING VOLTAGE
SM6S10A 11.1 12.3 5.0 10.0 15 250 271 17.0 SM6S11 1 12.2 14.9 5.0 11.0 10 150 229 20.1 SM6S11A 12.2 13.5 5.0 11.0 10 150 253 18.2 SM6S12A 13.3 16.3 5.0 12.0 10 150 29 22.0 SM6S13 14.4 17.6 5.0 12.0 10 150 231 19.9 SM6S13 14.4 17.6 5.0 13.0 10 150 214 21.5 SM6S14 15.6 19.1 5.0 13.0 10 150 214 21.5 SM6S14 15.6 19.1 5.0 14.0 10 150 178 25.8 SM6S15 16.7 20.4 5.0 15.0 10 150 198 23.2 SM6S16 17.8 18.5 5.0 15.0 10 150 160 28.8 SM6S16 17.8 19.		MIN.	MAX.	(ma)	(V)			(A)	
SM6S11 12.2 14.9 5.0 11.0 10 150 229 20.1 SM6S11A 12.2 13.5 5.0 11.0 10 150 253 18.2 SM6S12 13.3 16.3 5.0 12.0 10 150 209 22.0 SM6S13A 14.4 17.6 5.0 13.0 10 150 231 19.9 SM6S13A 14.4 15.9 5.0 13.0 10 150 193 23.8 SM6S14A 15.6 19.1 5.0 14.0 10 150 178 25.8 SM6S14A 15.6 17.2 5.0 14.0 10 150 198 23.2 SM6S15 16.7 20.4 5.0 15.0 10 150 171 26.9 SM6S16A 17.8 19.7 5.0 16.0 10 150 160 28.8 SM6S16A 17.8 19.7 5.0 1	SM6S10	11.1	13.6	5.0	10.0				18.8
SM6S11A 12.2 13.5 5.0 11.0 10 150 253 18.2 SM6S12A 13.3 16.3 5.0 12.0 10 150 209 22.0 SM6S12A 13.3 14.7 5.0 12.0 10 150 231 19.9 SM6S13A 14.4 17.6 5.0 13.0 10 150 193 23.8 SM6S13A 14.4 15.9 5.0 13.0 10 150 214 21.5 SM6S14A 15.6 19.1 5.0 14.0 10 150 178 26.8 SM6S14A 15.6 19.1 5.0 14.0 10 150 178 26.8 SM6S14A 15.6 19.1 5.0 14.0 10 150 178 22.8 SM6S15A 16.7 20.4 5.0 15.0 10 150 189 24.4 SM6S16A 17.8 21.8 5.0 <t< td=""><td>SM6S10A</td><td>11.1</td><td>12.3</td><td>5.0</td><td>10.0</td><td>15</td><td></td><td>271</td><td>17.0</td></t<>	SM6S10A	11.1	12.3	5.0	10.0	15		271	17.0
SM6S12 13.3 16.3 5.0 12.0 10 150 209 22.0 SM6S12A 13.3 14.7 5.0 12.0 10 150 231 19.9 SM6S13 14.4 17.6 5.0 13.0 10 150 193 23.8 SM6S13A 14.4 15.9 5.0 13.0 10 150 193 23.2 SM6S14A 15.6 19.1 5.0 14.0 10 150 178 25.8 SM6S14A 15.6 17.2 5.0 14.0 10 150 178 25.8 SM6S15 1 16.7 20.4 5.0 15.0 10 150 171 26.9 SM6S15 1 16.7 20.4 5.0 15.0 10 150 171 26.9 SM6S16 1 17.8 21.8 5.0 16.0 10 150 177 26.0 SM6S17 1 18.9 23.1 5.0	SM6S11	12.2	14.9	5.0	11.0	10	150	229	20.1
SM6S12A 13.3 14.7 5.0 12.0 10 150 231 19.9 SM6S13 14.4 17.6 5.0 13.0 10 150 193 23.8 SM6S13A 14.4 15.9 5.0 13.0 10 150 214 21.5 SM6S14A 15.6 19.1 5.0 14.0 10 150 178 25.8 SM6S14A 15.6 17.2 5.0 14.0 10 150 198 23.2 SM6S15 16.7 20.4 5.0 15.0 10 150 171 26.9 SM6S15A 16.7 20.4 5.0 15.0 10 150 189 24.4 SM6S16A 17.8 21.8 5.0 16.0 10 150 160 28.8 SM6S16A 17.8 19.7 5.0 16.0 10 150 177 26.0 SM6S17A 18.9 23.1 5.0	SM6S11A	12.2	13.5	5.0	11.0	10	150	253	18.2
SM6S13 14.4 17.6 5.0 13.0 10 150 193 23.8 SM6S13A 14.4 15.9 5.0 13.0 10 150 214 21.5 SM6S14 15.6 19.1 5.0 14.0 10 150 178 25.8 SM6S14A 15.6 19.1 5.0 14.0 10 150 178 25.8 SM6S14A 15.6 17.2 5.0 14.0 10 150 179 26.9 SM6S15 16.7 20.4 5.0 15.0 10 150 171 26.9 SM6S15A 16.7 18.5 5.0 15.0 10 150 189 24.4 SM6S16B 17.8 21.8 5.0 16.0 10 150 177 26.0 SM6S17A 18.9 23.1 5.0 17.0 10 150 167 27.6 SM6S18A 20.0 24.4 5.0 1	SM6S12	13.3	16.3	5.0	12.0	10	150	209	22.0
SM6S13A 14.4 15.9 5.0 13.0 10 150 214 21.5 SM6S14 15.6 19.1 5.0 14.0 10 150 178 25.8 SM6S14A 15.6 17.2 5.0 14.0 10 150 198 23.2 SM6S15 16.7 20.4 5.0 15.0 10 150 171 26.9 SM6S15A 16.7 20.4 5.0 15.0 10 150 189 24.4 SM6S16 17.8 21.8 5.0 16.0 10 150 189 24.4 SM6S16 17.8 19.7 5.0 16.0 10 150 160 28.8 SM6S17A 18.9 23.1 5.0 17.0 10 150 167 27.6 SM6S18A 20.0 24.4 5.0 18.0 10 150 143 32.2 SM6S20A 22.2 27.1 5.0 20	SM6S12A	13.3	14.7	5.0	12.0	10	150	231	19.9
SM6S14 15.6 19.1 5.0 14.0 10 150 178 25.8 SM6S14A 15.6 17.2 5.0 14.0 10 150 198 23.2 SM6S15 16.7 20.4 5.0 15.0 10 150 171 26.9 SM6S15A 16.7 18.5 5.0 15.0 10 150 189 24.4 SM6S16A 17.8 21.8 5.0 16.0 10 150 189 24.4 SM6S16A 17.8 19.7 5.0 16.0 10 150 160 28.8 SM6S17A 18.9 23.1 5.0 17.0 10 150 167 27.6 SM6S18A 20.0 24.4 5.0 18.0 10 150 167 27.6 SM6S20A 22.2 27.1 5.0 20.0 10 150 143 32.2 SM6S20A 22.2.2 24.5 5.0 <t< td=""><td>SM6S13</td><td>14.4</td><td>17.6</td><td>5.0</td><td>13.0</td><td>10</td><td>150</td><td>193</td><td>23.8</td></t<>	SM6S13	14.4	17.6	5.0	13.0	10	150	193	23.8
SM6S14A 15.6 17.2 5.0 14.0 10 150 198 23.2 SM6S15 16.7 20.4 5.0 15.0 10 150 171 26.9 SM6S15A 16.7 18.5 5.0 15.0 10 150 189 24.4 SM6S16A 17.8 21.8 5.0 16.0 10 150 160 28.8 SM6S16A 17.8 19.7 5.0 16.0 10 150 177 26.0 SM6S16A 17.8 19.7 5.0 16.0 10 150 177 26.0 SM6S16A 17.8 19.7 5.0 17.0 10 150 167 27.6 SM6S17A 18.9 20.9 5.0 17.0 10 150 167 27.6 SM6S18 20.0 24.4 5.0 18.0 10 150 143 32.2 SM6S20 22.2 27.1 5.0 2	SM6S13A	14.4	15.9	5.0	13.0	10	150	214	21.5
SM6S15 16.7 20.4 5.0 15.0 10 150 171 26.9 SM6S15A 16.7 18.5 5.0 15.0 10 150 189 24.4 SM6S16 17.8 21.8 5.0 16.0 10 150 160 28.8 SM6S16A 17.8 19.7 5.0 16.0 10 150 177 26.0 SM6S16A 17.8 19.7 5.0 16.0 10 150 177 26.0 SM6S17A 18.9 20.9 5.0 17.0 10 150 167 27.6 SM6S18 20.0 24.4 5.0 18.0 10 150 143 32.2 SM6S18A 20.0 22.1 5.0 18.0 10 150 158 29.2 SM6S20A 22.2 27.1 5.0 20.0 10 150 128 35.8 SM6S2A 24.4 29.8 5.0 22	SM6S14	15.6	19.1	5.0	14.0	10	150	178	25.8
SM6S15A 16.7 18.5 5.0 15.0 10 150 189 24.4 SM6S16 17.8 21.8 5.0 16.0 10 150 160 28.8 SM6S16A 17.8 19.7 5.0 16.0 10 150 177 26.0 SM6S17 18.9 23.1 5.0 17.0 10 150 167 27.6 SM6S17A 18.9 20.9 5.0 17.0 10 150 167 27.6 SM6S17A 18.9 20.9 5.0 17.0 10 150 167 27.6 SM6S17A 18.9 20.9 5.0 17.0 10 150 167 27.6 SM6S17A 18.9 20.9 5.0 18.0 10 150 167 27.6 SM6S18A 20.0 22.1 5.0 18.0 10 150 158 29.2 SM6S20 22.2 27.1 5.0 2	SM6S14A	15.6	17.2	5.0	14.0	10	150	198	23.2
SM6S16 17.8 21.8 5.0 16.0 10 150 160 28.8 SM6S16A 17.8 19.7 5.0 16.0 10 150 177 26.0 SM6S17 18.9 23.1 5.0 17.0 10 150 151 30.5 SM6S17A 18.9 20.9 5.0 17.0 10 150 167 27.6 SM6S18A 20.0 24.4 5.0 18.0 10 150 143 32.2 SM6S18A 20.0 22.1 5.0 18.0 10 150 143 32.2 SM6S20A 22.2 27.1 5.0 20.0 10 150 158 29.2 SM6S20A 22.2 27.1 5.0 20.0 10 150 142 32.8 SM6S20A 22.2 24.5 5.0 22.0 10 150 117 39.4 SM6S22A 24.4 26.9 5.0	SM6S15	16.7	20.4	5.0	15.0	10	150	171	26.9
SM6S16A 17.8 19.7 5.0 16.0 10 150 177 26.0 SM6S17 18.9 23.1 5.0 17.0 10 150 151 30.5 SM6S17A 18.9 20.9 5.0 17.0 10 150 167 27.6 SM6S18 20.0 24.4 5.0 18.0 10 150 143 32.2 SM6S18A 20.0 22.1 5.0 18.0 10 150 143 32.2 SM6S2DA 22.2 27.1 5.0 20.0 10 150 128 35.8 SM6S2DA 22.2 24.5 5.0 20.0 10 150 142 32.4 SM6S2DA 22.2 24.5 5.0 20.0 10 150 117 39.4 SM6S2A 24.4 29.8 5.0 22.0 10 150 117 39.4 SM6S2A 26.7 32.6 5.0 24	SM6S15A	16.7	18.5	5.0	15.0	10	150	189	24.4
SM6S17 18.9 23.1 5.0 17.0 10 150 151 30.5 SM6S17A 18.9 20.9 5.0 17.0 10 150 167 27.6 SM6S18 20.0 24.4 5.0 18.0 10 150 143 32.2 SM6S18A 20.0 22.1 5.0 18.0 10 150 158 29.2 SM6S20 22.2 27.1 5.0 20.0 10 150 128 35.8 SM6S20A 22.2 24.5 5.0 20.0 10 150 128 35.8 SM6S20A 22.2 24.5 5.0 20.0 10 150 142 32.4 SM6S22 24.4 29.8 5.0 22.0 10 150 117 39.4 SM6S24A 26.7 32.6 5.0 24.0 10 150 107 43.0 SM6S24A 26.7 29.5 5.0 24	SM6S16	17.8	21.8	5.0	16.0	10	150	160	28.8
SM6S17A 18.9 20.9 5.0 17.0 10 150 167 27.6 SM6S18 20.0 24.4 5.0 18.0 10 150 143 32.2 SM6S18A 20.0 22.1 5.0 18.0 10 150 158 29.2 SM6S20 22.2 27.1 5.0 20.0 10 150 128 35.8 SM6S20A 22.2 24.5 5.0 20.0 10 150 142 32.4 SM6S22 24.4 29.8 5.0 22.0 10 150 117 39.4 SM6S22A 24.4 26.9 5.0 22.0 10 150 130 35.5 SM6S24 26.7 32.6 5.0 24.0 10 150 118 38.9 SM6S24A 26.7 29.5 5.0 24.0 10 150 118 38.9 SM6S26A 28.9 35.3 5.0 26	SM6S16A	17.8	19.7	5.0	16.0	10	150	177	26.0
SM6S18 20.0 24.4 5.0 18.0 10 150 143 32.2 SM6S18A 20.0 22.1 5.0 18.0 10 150 158 29.2 SM6S20 22.2 27.1 5.0 20.0 10 150 128 35.8 SM6S20A 22.2 24.5 5.0 20.0 10 150 142 32.4 SM6S22 24.4 29.8 5.0 22.0 10 150 117 39.4 SM6S22A 24.4 26.9 5.0 22.0 10 150 130 35.5 SM6S24 26.7 32.6 5.0 24.0 10 150 107 43.0 SM6S24A 26.7 29.5 5.0 24.0 10 150 118 38.9 SM6S26 28.9 35.3 5.0 26.0 10 150 99 46.6 SM6S28A 31.1 38.0 5.0 28.0	SM6S17	18.9	23.1	5.0	17.0	10	150	151	30.5
SM6S18A 20.0 22.1 5.0 18.0 10 150 158 29.2 SM6S20 22.2 27.1 5.0 20.0 10 150 128 35.8 SM6S20A 22.2 24.5 5.0 20.0 10 150 142 32.4 SM6S22 24.4 29.8 5.0 22.0 10 150 117 39.4 SM6S22A 24.4 26.9 5.0 22.0 10 150 130 35.5 SM6S24A 26.7 32.6 5.0 24.0 10 150 107 43.0 SM6S24A 26.7 29.5 5.0 24.0 10 150 118 38.9 SM6S26A 28.9 35.3 5.0 26.0 10 150 99 46.6 SM6S28A 31.1 38.0 5.0 28.0 10 150 92 50.1 SM6S30A 33.3 36.8 5.0 30	SM6S17A	18.9	20.9	5.0	17.0	10	150	167	27.6
SM6S20 22.2 27.1 5.0 20.0 10 150 128 35.8 SM6S20A 22.2 24.5 5.0 20.0 10 150 142 32.4 SM6S22 24.4 29.8 5.0 22.0 10 150 117 39.4 SM6S22A 24.4 26.9 5.0 22.0 10 150 130 35.5 SM6S24 26.7 32.6 5.0 24.0 10 150 107 43.0 SM6S24A 26.7 29.5 5.0 24.0 10 150 107 43.0 SM6S26A 28.9 35.3 5.0 26.0 10 150 118 38.9 SM6S26A 28.9 31.9 5.0 26.0 10 150 19 42.1 SM6S28A 31.1 38.0 5.0 28.0 10 150 92 50.1 SM6S30 33.3 40.7 5.0 30.0	SM6S18	20.0	24.4	5.0	18.0	10	150	143	32.2
SM6S20A 22.2 24.5 5.0 20.0 10 150 142 32.4 SM6S22 24.4 29.8 5.0 22.0 10 150 117 39.4 SM6S22A 24.4 26.9 5.0 22.0 10 150 130 35.5 SM6S24A 26.7 32.6 5.0 24.0 10 150 107 43.0 SM6S24A 26.7 29.5 5.0 24.0 10 150 118 38.9 SM6S26A 28.9 35.3 5.0 26.0 10 150 99 46.6 SM6S26A 28.9 31.9 5.0 26.0 10 150 109 42.1 SM6S28A 31.1 38.0 5.0 28.0 10 150 92 50.1 SM6S30 33.3 40.7 5.0 30.0 10 150 86 53.5 SM6S33A 36.7 44.9 5.0 33.	SM6S18A	20.0	22.1	5.0	18.0	10	150	158	29.2
SM6S22 24.4 29.8 5.0 22.0 10 150 117 39.4 SM6S22A 24.4 26.9 5.0 22.0 10 150 130 35.5 SM6S24 26.7 32.6 5.0 24.0 10 150 107 43.0 SM6S24A 26.7 29.5 5.0 24.0 10 150 118 38.9 SM6S26 28.9 35.3 5.0 26.0 10 150 99 46.6 SM6S26A 28.9 31.9 5.0 26.0 10 150 109 42.1 SM6S28 31.1 38.0 5.0 28.0 10 150 92 50.1 SM6S30A 33.3 40.7 5.0 30.0 10 150 86 53.5 SM6S30A 33.3 36.8 5.0 30.0 10 150 95 48.4 SM6S33A 36.7 44.9 5.0 33.0 </td <td>SM6S20</td> <td>22.2</td> <td>27.1</td> <td>5.0</td> <td>20.0</td> <td>10</td> <td>150</td> <td>128</td> <td>35.8</td>	SM6S20	22.2	27.1	5.0	20.0	10	150	128	35.8
SM6S22A 24.4 26.9 5.0 22.0 10 150 130 35.5 SM6S24 26.7 32.6 5.0 24.0 10 150 107 43.0 SM6S24A 26.7 29.5 5.0 24.0 10 150 118 38.9 SM6S26 28.9 35.3 5.0 26.0 10 150 99 46.6 SM6S26A 28.9 31.9 5.0 26.0 10 150 109 42.1 SM6S28 31.1 38.0 5.0 28.0 10 150 92 50.1 SM6S28A 31.1 34.4 5.0 28.0 10 150 92 50.1 SM6S30 33.3 40.7 5.0 30.0 10 150 86 53.5 SM6S33A 36.7 44.9 5.0 33.0 10 150 78 59.0 SM6S33A 40.0 48.9 5.0 36.0 <td>SM6S20A</td> <td>22.2</td> <td>24.5</td> <td>5.0</td> <td>20.0</td> <td>10</td> <td>150</td> <td>142</td> <td>32.4</td>	SM6S20A	22.2	24.5	5.0	20.0	10	150	142	32.4
SM6S24 26.7 32.6 5.0 24.0 10 150 107 43.0 SM6S24A 26.7 29.5 5.0 24.0 10 150 118 38.9 SM6S26 28.9 35.3 5.0 26.0 10 150 99 46.6 SM6S26A 28.9 31.9 5.0 26.0 10 150 109 42.1 SM6S28 31.1 38.0 5.0 28.0 10 150 92 50.1 SM6S28A 31.1 34.4 5.0 28.0 10 150 101 45.4 SM6S30 33.3 40.7 5.0 30.0 10 150 86 53.5 SM6S30A 33.3 36.8 5.0 30.0 10 150 95 48.4 SM6S33 36.7 44.9 5.0 33.0 10 150 78 59.0 SM6S36 40.0 48.9 5.0 36.0	SM6S22	24.4	29.8	5.0	22.0	10	150	117	39.4
SM6S24A 26.7 29.5 5.0 24.0 10 150 118 38.9 SM6S26 28.9 35.3 5.0 26.0 10 150 99 46.6 SM6S26A 28.9 31.9 5.0 26.0 10 150 109 42.1 SM6S28 31.1 38.0 5.0 28.0 10 150 92 50.1 SM6S28A 31.1 34.4 5.0 28.0 10 150 101 45.4 SM6S30 33.3 40.7 5.0 30.0 10 150 86 53.5 SM6S30A 33.3 36.8 5.0 30.0 10 150 95 48.4 SM6S33 36.7 44.9 5.0 33.0 10 150 78 59.0 SM6S36 40.0 48.9 5.0 36.0 10 150 72 64.3	SM6S22A	24.4	26.9	5.0	22.0	10	150	130	35.5
SM6S26 28.9 35.3 5.0 26.0 10 150 99 46.6 SM6S26A 28.9 31.9 5.0 26.0 10 150 109 42.1 SM6S28 31.1 38.0 5.0 28.0 10 150 92 50.1 SM6S28A 31.1 34.4 5.0 28.0 10 150 101 45.4 SM6S30 33.3 40.7 5.0 30.0 10 150 86 53.5 SM6S30A 33.3 36.8 5.0 30.0 10 150 95 48.4 SM6S33 36.7 44.9 5.0 33.0 10 150 78 59.0 SM6S33A 36.7 40.6 5.0 33.0 10 150 72 64.3 SM6S36 40.0 48.9 5.0 36.0 10 150 72 64.3	SM6S24	26.7	32.6	5.0	24.0	10	150	107	43.0
SM6S26A 28.9 31.9 5.0 26.0 10 150 109 42.1 SM6S28 31.1 38.0 5.0 28.0 10 150 92 50.1 SM6S28A 31.1 34.4 5.0 28.0 10 150 101 45.4 SM6S30 33.3 40.7 5.0 30.0 10 150 86 53.5 SM6S30A 33.3 36.8 5.0 30.0 10 150 95 48.4 SM6S33 36.7 44.9 5.0 33.0 10 150 78 59.0 SM6S33A 36.7 40.6 5.0 33.0 10 150 86 53.3 SM6S36 40.0 48.9 5.0 36.0 10 150 72 64.3	SM6S24A	26.7	29.5	5.0	24.0	10	150	118	38.9
SM6S28 31.1 38.0 5.0 28.0 10 150 92 50.1 SM6S28A 31.1 34.4 5.0 28.0 10 150 101 45.4 SM6S30 33.3 40.7 5.0 30.0 10 150 86 53.5 SM6S30A 33.3 36.8 5.0 30.0 10 150 95 48.4 SM6S33 36.7 44.9 5.0 33.0 10 150 78 59.0 SM6S33A 36.7 40.6 5.0 33.0 10 150 86 53.3 SM6S36 40.0 48.9 5.0 36.0 10 150 72 64.3	SM6S26	28.9	35.3	5.0	26.0	10	150	99	46.6
SM6S28A 31.1 34.4 5.0 28.0 10 150 101 45.4 SM6S30 33.3 40.7 5.0 30.0 10 150 86 53.5 SM6S30A 33.3 36.8 5.0 30.0 10 150 95 48.4 SM6S33 36.7 44.9 5.0 33.0 10 150 78 59.0 SM6S33A 36.7 40.6 5.0 33.0 10 150 86 53.3 SM6S36 40.0 48.9 5.0 36.0 10 150 72 64.3	SM6S26A	28.9	31.9	5.0	26.0	10	150	109	42.1
SM6S30 33.3 40.7 5.0 30.0 10 150 86 53.5 SM6S30A 33.3 36.8 5.0 30.0 10 150 95 48.4 SM6S33 36.7 44.9 5.0 33.0 10 150 78 59.0 SM6S33A 36.7 40.6 5.0 33.0 10 150 86 53.3 SM6S36 40.0 48.9 5.0 36.0 10 150 72 64.3	SM6S28	31.1	38.0	5.0	28.0	10	150	92	50.1
SM6S30A 33.3 36.8 5.0 30.0 10 150 95 48.4 SM6S33 36.7 44.9 5.0 33.0 10 150 78 59.0 SM6S33A 36.7 40.6 5.0 33.0 10 150 86 53.3 SM6S36 40.0 48.9 5.0 36.0 10 150 72 64.3	SM6S28A	31.1	34.4	5.0	28.0	10	150	101	45.4
SM6S33 36.7 44.9 5.0 33.0 10 150 78 59.0 SM6S33A 36.7 40.6 5.0 33.0 10 150 86 53.3 SM6S36 40.0 48.9 5.0 36.0 10 150 72 64.3	SM6S30	33.3	40.7	5.0	30.0	10	150	86	53.5
SM6S33A 36.7 40.6 5.0 33.0 10 150 86 53.3 SM6S36 40.0 48.9 5.0 36.0 10 150 72 64.3	SM6S30A	33.3	36.8	5.0	30.0	10	150	95	48.4
SM6S36 40.0 48.9 5.0 36.0 10 150 72 64.3	SM6S33	36.7	44.9	5.0	33.0	10	150	78	59.0
	SM6S33A	36.7	40.6	5.0	33.0	10	150	86	53.3
SM6S36A 40.0 44.2 5.0 36.0 10 150 79 58.1	SM6S36	40.0	48.9	5.0	36.0	10	150	72	64.3
	SM6S36A	40.0	44.2	5.0	36.0	10	150	79	58.1

Note

For all types maximum V_F = 1.9 V at I_F = 100 A measured on 8.3 ms single half sine-wave or equivalent square wave, duty cycle = 4 pulses
per minute maximum

THERMAL CHARACTERISTICS (T _C = 25 °C unless otherwise noted)					
PARAMETER	SYMBOL	VALUE	UNIT		
Typical thermal resistance, junction to case	$R_{ heta JC}$	0.95	°C/W		

ORDERING INFORMATION (Example)						
PREFERRED P/N	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE		
SM6S10AHE3/2D ⁽¹⁾	2.550	2D	750	13" diameter plastic tape and reel, anode towards the sprocket hole		
SM6S10AHE3_A/I (1)	2.550	I	750	13" diameter plastic tape and reel, anode towards the sprocket hole		

Note

(1) AEC-Q101 qualified

Vishay General Semiconductor

RATINGS AND CHARACTERISTICS CURVES (T_A = 25 °C unless otherwise noted)

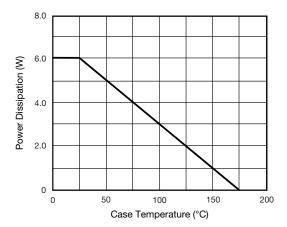


Fig. 1 - Power Derating Curve

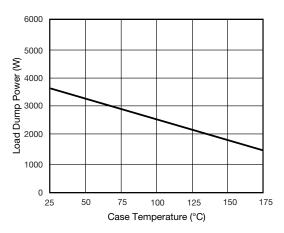


Fig. 2 - Load Dump Power Characteristics (10 ms Exponential Waveform)

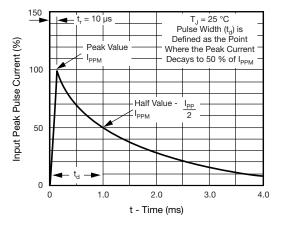


Fig. 3 - Pulse Waveform

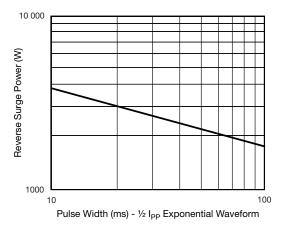


Fig. 4 - Reverse Power Capability

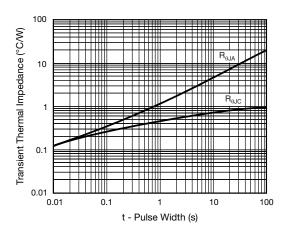
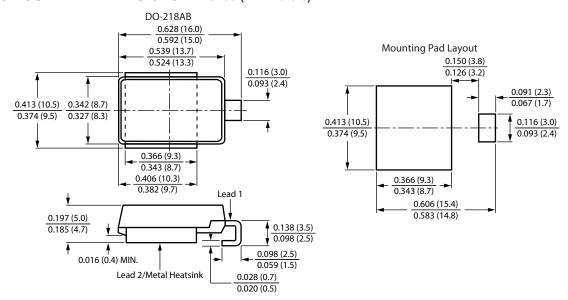


Fig. 5 - Typical Transient Thermal Impedance



Vishay General Semiconductor

PACKAGE OUTLINE DIMENSIONS in inches (millimeters)







Vishay

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.

单击下面可查看定价,库存,交付和生命周期等信息

>>Vishay(威世)