



ELECTRICAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)											
PARAMETER	TEST CONDITIONS		SYMBOL	S2A	S2B	S2D	S2G	S2J	S2K	S2M	UNIT
Max. instantaneous forward voltage	1.5 A		V _F				1.15			V	
Max. DC reverse current at rated DC blocking voltage	T _A = 25 °C		I _R				1.0			μA	
	T _A = 125 °C						125				
Typical reverse recovery time	I _F = 0.5 A, I _R = 1.0 A, I _{rr} = 0.25 A		t _{rr}				2.0			μs	
Typical junction capacitance	4.0 V, 1 MHz		C _J				16			pF	

THERMAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)										
PARAMETER	SYMBOL	S2A	S2B	S2D	S2G	S2J	S2K	S2M	UNIT	
Typical thermal resistance ⁽¹⁾	R _{θJA}					53			°C/W	
	R _{θJL}					16				

Note

⁽¹⁾ Thermal resistance from junction to ambient and from junction to lead mounted on PCB with 0.3" x 0.3" (8.0 mm x 8.0 mm) copper pad areas

ORDERING INFORMATION (Example)				
PREFERRED P/N	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
S2J-E3/52T	0.096	52T	750	7" diameter plastic tape and reel
S2J-E3/5BT	0.096	5BT	3200	13" diameter plastic tape and reel
S2JHE3_A/H ⁽¹⁾	0.096	H	750	7" diameter plastic tape and reel
S2JHE3_A/I ⁽¹⁾	0.096	I	3200	13" diameter plastic tape and reel
S2J-M3/52T	0.096	52T	750	7" diameter plastic tape and reel
S2J-M3/5BT	0.096	5BT	3200	13" diameter plastic tape and reel
S2JHM3_A/H ⁽¹⁾	0.096	H	750	7" diameter plastic tape and reel
S2JHM3_A/I ⁽¹⁾	0.096	I	3200	13" diameter plastic tape and reel

Note

⁽¹⁾ AEC-Q101 qualified

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

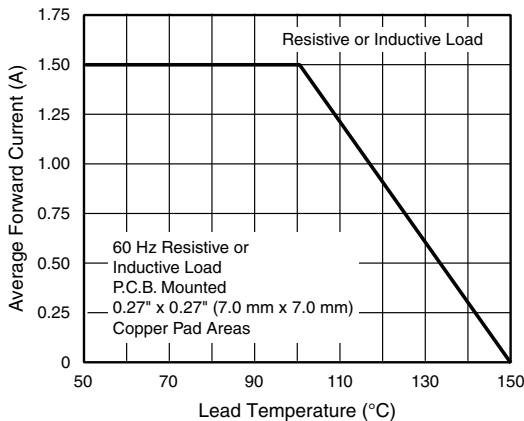


Fig. 1 - Forward Current Derating Curve

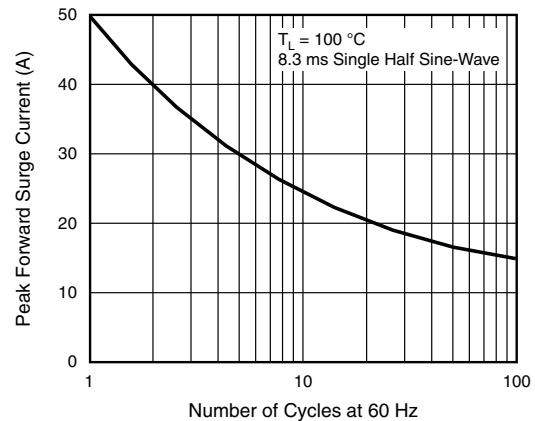


Fig. 2 - Max. Non-Repetitive Peak Forward Surge Current

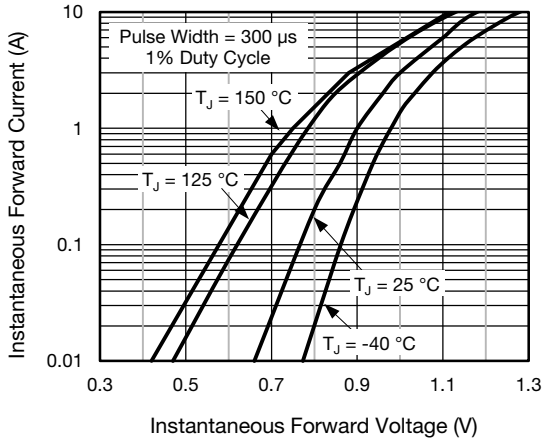


Fig. 3 - Typical Instantaneous Forward Characteristics

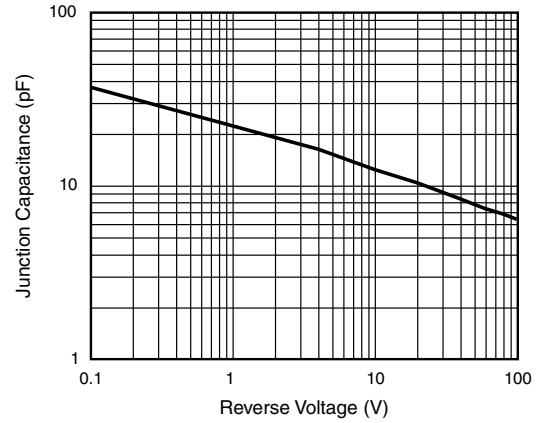


Fig. 5 - Typical Junction Capacitance

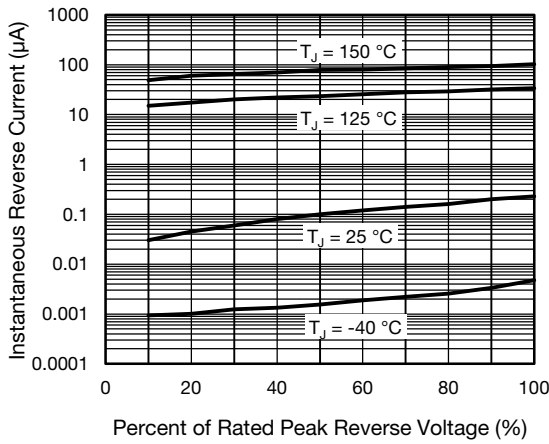


Fig. 4 - Typical Reverse Characteristics

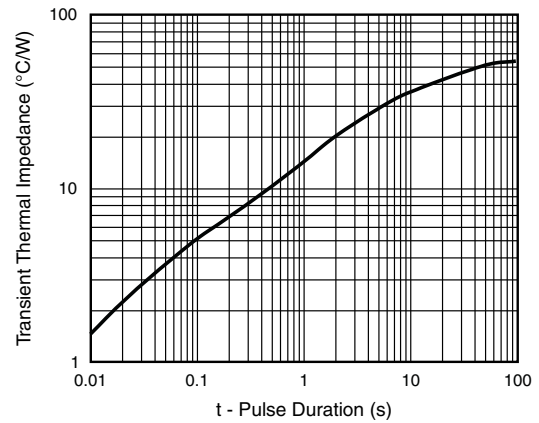
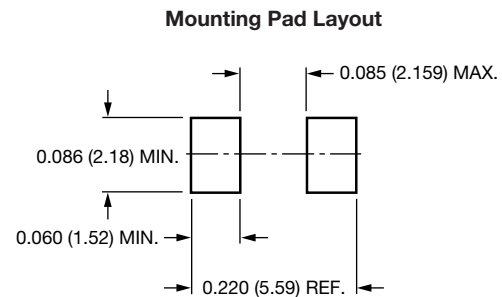
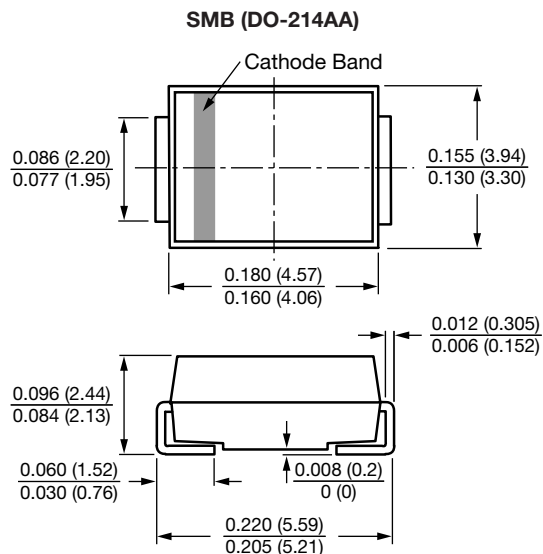


Fig. 6 - Typical Transient Thermal Impedance

PACKAGE OUTLINE DIMENSIONS in inches (millimeters)





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