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Vishay General Semiconductor

ELECTRICAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)											
PARAMETER	TEST CONDITIONS		SYMBOL	S3A	S3B	S3D	S3G	S3J	S3K	S3M	UNIT
Maximum instantaneous forward voltage	2.5 A		V _F	1.15				V			
Maximum DC reverse current at rated		T _A = 25 °C	I _R	10							μА
DC blocking voltage		T _A = 125 °C	·n	250							μ., .
Typical reverse recovery time	$I_F = 0.5 \text{ A}, I_R = 1.0 \text{ A}, I_{rr} = 0.25 \text{ A}$		t _{rr}	2.5						μs	
Typical junction capacitance	4.0 V, 1 MHz		CJ	60							pF

THERMAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)									
PARAMETER		S3A	S3B	S3D	S3G	S3J	S3K	S3M	UNIT
Typical thermal resistance (1)	$R_{\theta JA}$	47							°C/W
Typical thermal resistance V	$R_{\theta JL}$	13							

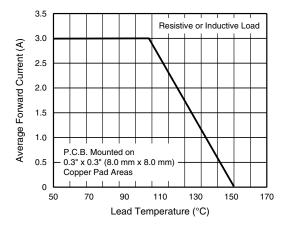
Note

⁽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 area

ORDERING INFORMATION (Example)								
PREFERRED P/N	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE				
S3J-E3/57T	0.211	57T	850	7" diameter plastic tape and reel				
S3J-E3/9AT	0.211	9AT	3500	13" diameter plastic tape and reel				
S3JHE3_A/H (1)	0.211	Н	850	7" diameter plastic tape and reel				
S3JHE3_A/I (1)	0.211	I	3500	13" diameter plastic tape and reel				
S3J-M3/57T	0.211	57T	850	7" diameter plastic tape and reel				
S3J-M3/9AT	0.211	9AT	3500	13" diameter plastic tape and reel				
S3JHM3_A/H (1)	0.211	Н	850	7" diameter plastic tape and reel				
S3JHM3_A/I ⁽¹⁾	0.211	I	3500	13" diameter plastic tape and reel				

Note

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





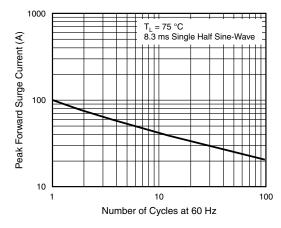


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

⁽¹⁾ AEC-Q101 qualified

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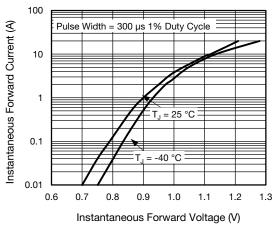


Fig. 3 - Typical Instantaneous Forward Characteristics

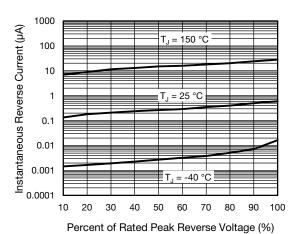


Fig. 4 - Typical Reverse Characteristics

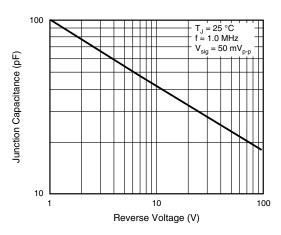


Fig. 5 - Typical Junction Capacitance

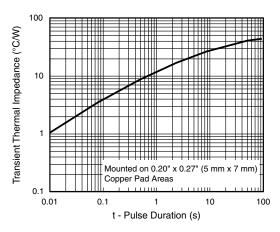
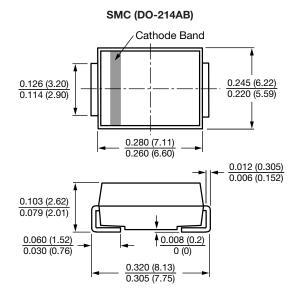
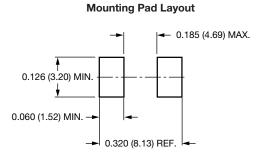


Fig. 6 - Typical Transient Thermal Impedance

PACKAGE OUTLINE DIMENSIONS in inches (millimeters)







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