THERMAL CHARACTERISTICS

Characteristic	Symbol	Value	Unit
Thermal Resistance – Junction–to–Lead (Note 1) Thermal Resistance – Junction–to–Ambient (Note 2)	$R_{ hetaJL} \ R_{ hetaJA}$	24 80	°C/W

^{1.} Mounted with minimum recommended pad size, PC Board FR4.

ELECTRICAL CHARACTERISTICS

			Value		
Characteristic		Symbol	T _J = 25°C	T _J = 125°C	Unit
Maximum Instantaneous Forward Voltage (Note 3) ((i _F = 1.0 A) (i _F = 2.0 A)	VF	0.51 0.63	0.475 0.55	V
Maximum Instantaneous Reverse Current (Note 3)	V _R = 60 V)	I _R	0.2	20	mA

3. Pulse Test: Pulse Width \leq 250 μ s, Duty Cycle \leq 2.0%.

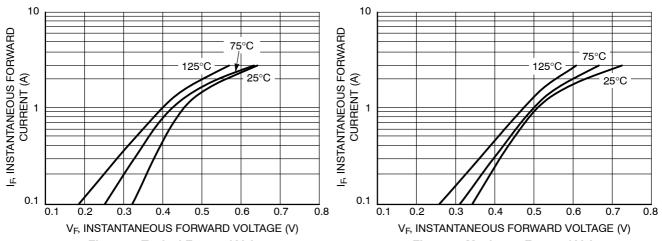


Figure 1. Typical Forward Voltage

Figure 2. Maximum Forward Voltage

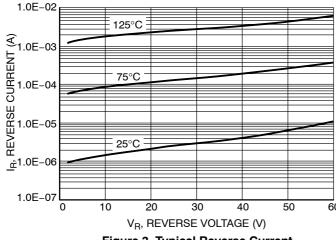


Figure 3. Typical Reverse Current

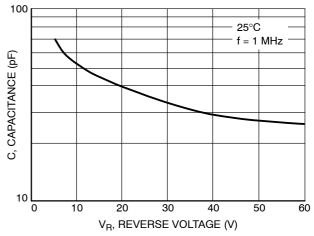
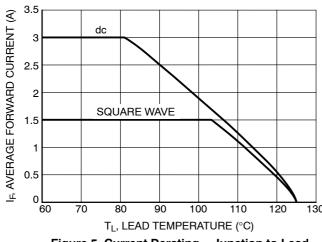


Figure 4. Typical Capacitance

^{2. 1} inch square pad size (1 x 0.5 inch for each lead) on FR4 board.



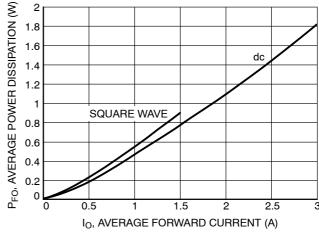


Figure 5. Current Derating - Junction to Lead

Figure 6. Forward Power Dissipation

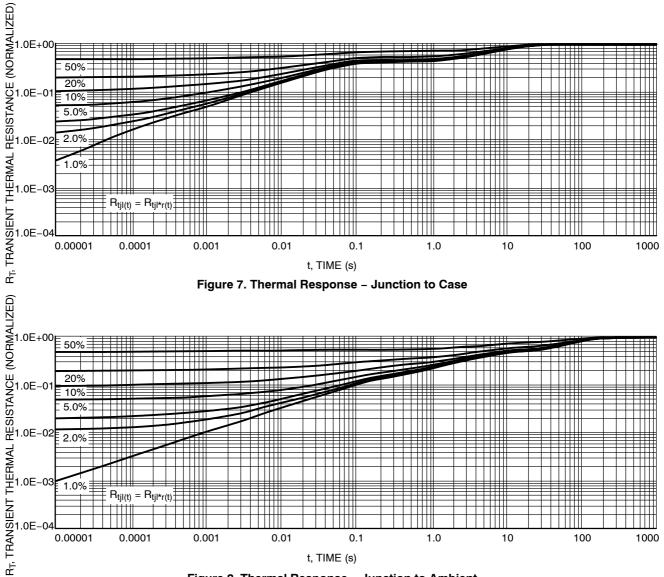


Figure 7. Thermal Response - Junction to Case

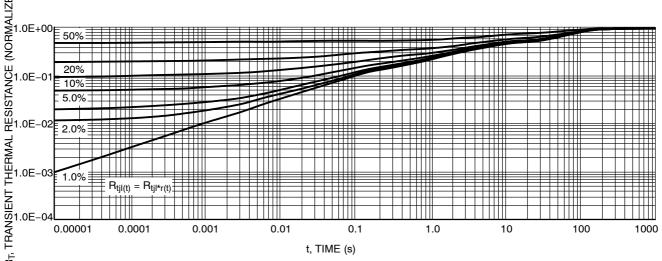
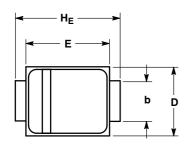


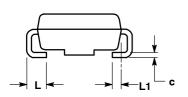
Figure 8. Thermal Response - Junction to Ambient

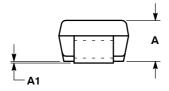
SS26

PACKAGE DIMENSIONS

SMB CASE 403A-03 **ISSUE G**



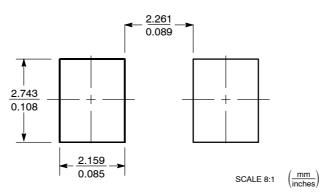




- 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
 2. CONTROLLING DIMENSION: INCH.
 3. D DIMENSION SHALL BE MEASURED WITHIN DIMENSION P.

	MILLIMETERS			INCHES			
DIM	MIN	NOM	MAX	MIN	MON	MAX	
Α	1.90	2.13	2.45	0.075	0.084	0.096	
A1	0.05	0.10	0.20	0.002	0.004	0.008	
b	1.96	2.03	2.20	0.077	0.080	0.087	
С	0.15	0.23	0.31	0.006	0.009	0.012	
D	3.30	3.56	3.95	0.130	0.140	0.156	
Е	4.06	4.32	4.60	0.160	0.170	0.181	
HE	5.21	5.44	5.60	0.205	0.214	0.220	
L	0.76	1.02	1.60	0.030	0.040	0.063	
L1	0.51 REF				0.020 REF		

SOLDERING FOOTPRINT*



*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

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