SS26T3G, NRVBSS26T3G, NRVBSS26NT3G, SRVBSS26NT3G

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	60	V
Average Rectified Forward Current (At Rated V_R , $T_L = 95^{\circ}C$)	Io	2.0	А
Non-Repetitive Peak Surge Current (Surge Applied at Rated Load Conditions Halfwave, Single Phase, 60 Hz)	I _{FSM}	40	А
Storage/Operating Case Temperature	T _{stg} , T _C	-55 to +150	°C
Operating Junction Temperature	T _J	−55 to +150	°C
Voltage Rate of Change (Rated V_R , $T_J = 25^{\circ}C$)	dv/dt	10,000	V/μs

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

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

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

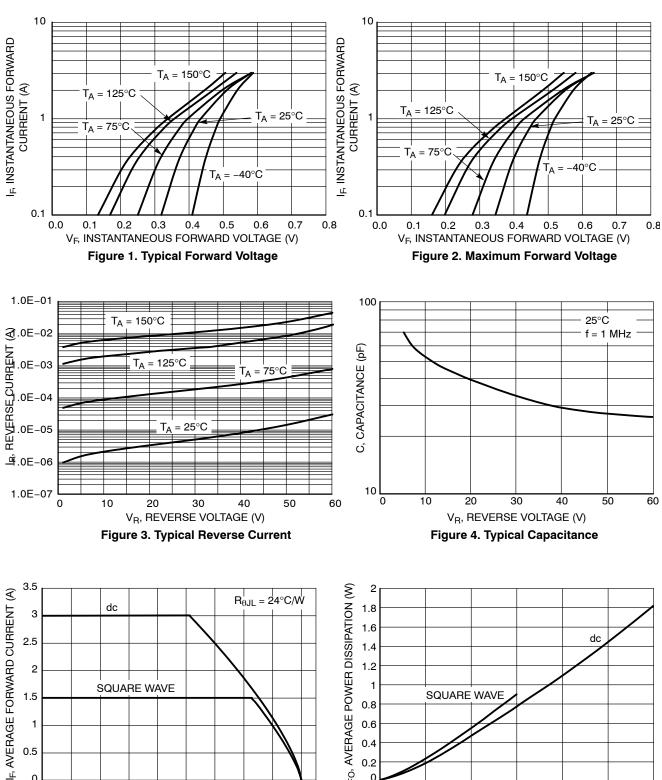
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

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

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

SS26T3G, NRVBSS26T3G, NRVBSS26NT3G, SRVBSS26NT3G

TYPICAL CHARACTERISTICS



130 60 70 90 100 110 120 T_L, LEAD TEMPERATURE (°C)

Figure 5. Current Derating - Junction to Lead

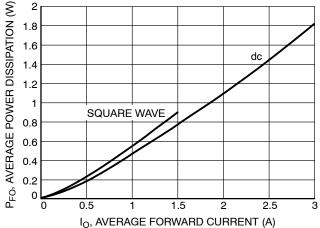


Figure 6. Forward Power Dissipation

1.5

0.5

SS26T3G, NRVBSS26T3G, NRVBSS26NT3G, SRVBSS26NT3G

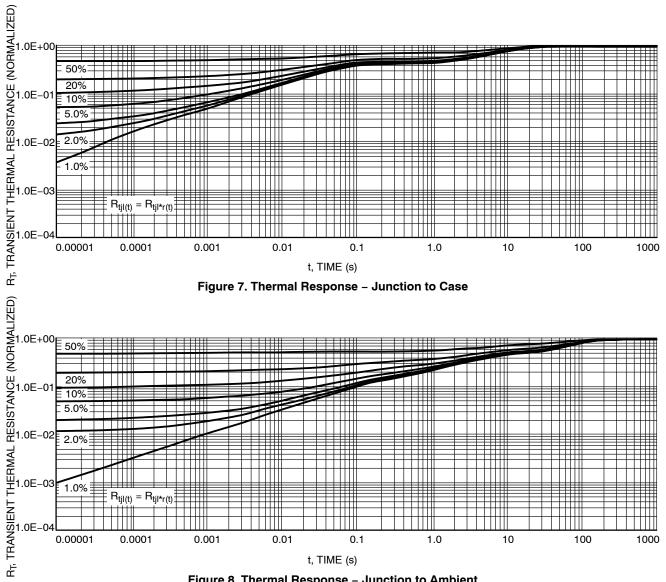


Figure 7. Thermal Response - Junction to Case

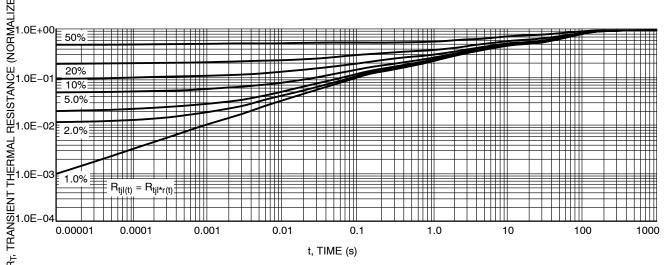


Figure 8. Thermal Response - Junction to Ambient

MECHANICAL CASE OUTLINE



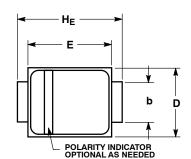


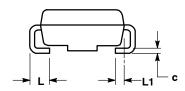
SMB CASE 403A-03 **ISSUE J**

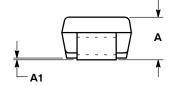
DATE 19 JUL 2012

SCALE 1:1 **Polarity Band**

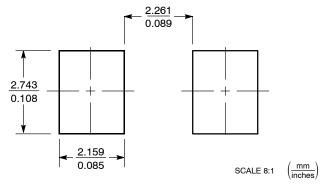
Non-Polarity Band







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.

- 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982. 2. CONTROLLING DIMENSION: INCL.
- 3. DIMENSION b SHALL BE MEASURED WITHIN DIMENSION L1.

	MILLIMETERS			INCHES		
DIM	MIN	NOM	MAX	MIN	MOM	MAX
Α	1.95	2.30	2.47	0.077	0.091	0.097
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
E	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	=

GENERIC MARKING DIAGRAM*





Polarity Band

Non-Polarity Band

XXXXX = Specific Device Code = Assembly Location Α

Υ = Year WW = Work Week = Pb-Free Package

(Note: Microdot may be in either location)

*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot " ■", may or may not be present.

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