SS26

特力材料886-3-5753170 胜特力电子(上海) 86-21-54151736 胜特力电子(深圳) 86-755-83298787

Http://www. 100y. com. tw

Surface Mount Schottky Power Rectifier

SMB Power Surface Mount Package

... employing the Schottky Barrier principle in a metal-to-silicon power rectifier. Features epitaxial construction with oxide passivation and metal overlay contact. Ideally suited for low voltage, high frequency switching power supplies; free wheeling diodes and polarity protection diodes.

Features

- Compact Package with J-Bend Leads Ideal for Automated Handling
- Highly Stable Oxide Passivated Junction
- Guardring for Overvoltage Protection
- Low Forward Voltage Drop
- Pb-Free Package is Available

Mechanical Characteristics:

- Case: Molded Epoxy
- Epoxy Meets UL 94, V-O at 0.125 in
- Weight: 95 mg (approximately)
- Cathode Polarity Band
- Lead and Mounting Surface Temperature for Soldering Purposes: 260°C Max. for 10 Seconds
- Available in 12 mm Tape, 2500 Units per 13" Reel, Add "T3" Suffix to Part Number
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- ESD Ratings: Human Body Model = 3B Machine Model = C

• Marking: SS26

MAXIMUM RATINGS

Rating	Symbol	Value 🔨	Unit	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	60	WW	
Average Rectified Forward Current (At Rated V _R , T _L = 95°C)	I Clo	2.0	Α	
Non-Repetitive Peak Surge Current (Surge Applied at Rated Load Condi- tions Halfwave, Single Phase, 60 Hz)	I _{FSM}	40	Α	
Storage/Operating Case Temperature	T _{stg} , T _C	-55 to +150	°C	
Operating Junction Temperature	TJ	-55 to +150	°C	
Voltage Rate of Change (Rated V _R , T _J = 25°C)	dv/dt	10,000	V/μs	

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.



ON Semiconductor®

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SCHOTTKY BARRIER RECTIFIER 2.0 AMPERES 60 VOLTS



CASE 403A **PLASTIC**

MARKING DIAGRAM



SS26 = Specific Device Code = Assembly Location Α

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

(Note: Microdot may be in either location)

ORDERING INFORMATION

Device	Package	Shipping [†]
SS26T3	SMB	2500 / Tape & Reel
SS26T3G	SMB (Pb-Free)	2500 / Tape & Reel

†For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

THERMAL CHARACTERISTICS

Characteristic	Symbol	Value	Unit	
Thermal Resistance - Junction-to-Lead (Note 1) Thermal Resistance - Junction-to-Ambient (Note 2)	$R_{ heta JL} \ R_{ heta JA}$	24 80	°C/W	

Mounted with minimum recommended pad size, PC Board FR4.

ELECTRICAL CHARACTERISTICS

COM. MAM., W.CO.	WT	MMM	Value		
Characteristic Characteristic		Symbol	T _J = 25°C	T _J = 125°C	Uni
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	12	mA

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

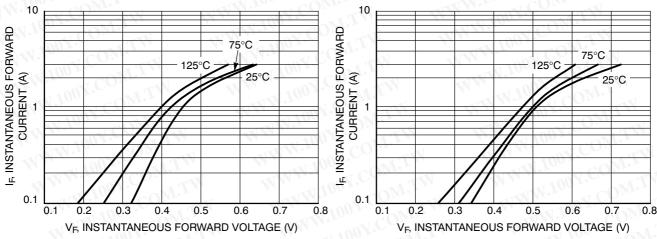


Figure 1. Typical Forward Voltage

Figure 2. Maximum Forward Voltage

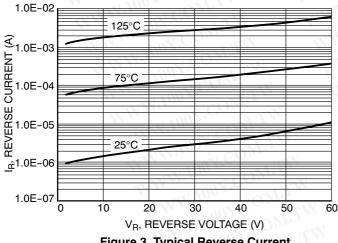


Figure 3. Typical Reverse Current

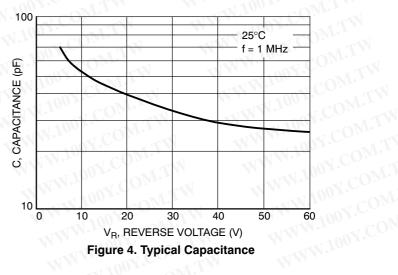
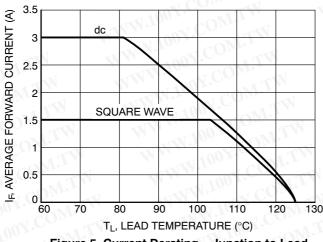


Figure 4. Typical Capacitance WWW.100Y.COM

WWW.100Y.COM.TW

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



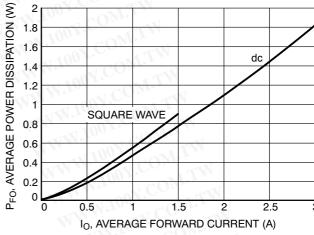


Figure 5. Current Derating - Junction to Lead

Figure 6. Forward Power Dissipation

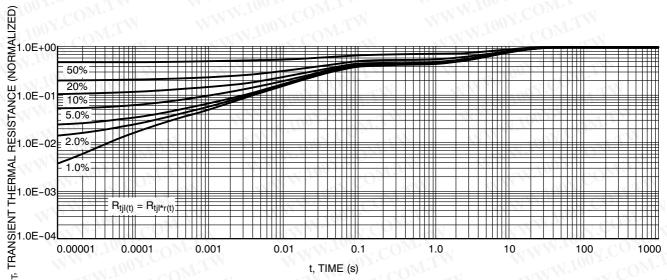


Figure 7. Thermal Response - Junction to Case

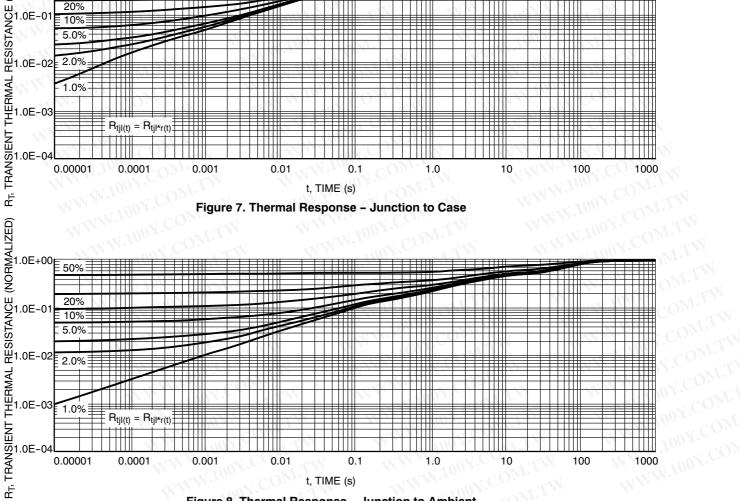
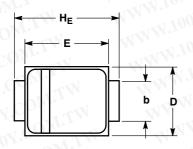


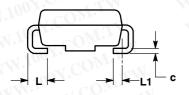
Figure 8. Thermal Response - Junction to Ambient WWW.100Y.COM.TW

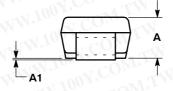
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PACKAGE DIMENSIONS

SMB CASE 403A-03 ISSUE F





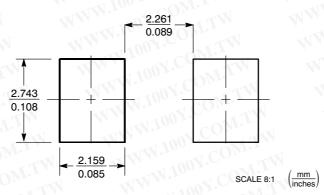


NOTES:

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

-41	100 M	ILLIMETE	RS		INCHES	
DIM	MIN	NOM	MAX	MIN	NOM	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
C	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	-11	0.51 REF	40	17.	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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