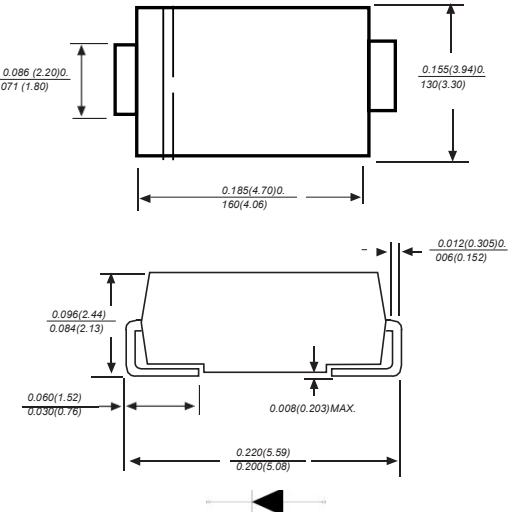


## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

### Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- ◆ Metal silicon junction,majority carrier conduction
- ◆ Low power loss,high efficiency
- ◆ Built-in strain relief,ideal for automated placement
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed:  
250 °C/10 seconds at terminals

### DO-214AA/SMB



Dimensions in inches and (millimeters)

### Mechanical Data

Case : JEDEC DO-214AA/SMB molded plastic body

Terminals : Solderable per MIL-STD-750, Method 2026

Polarity : Color band denotes cathode end Mounting

Position : Any

Weight : 0.003 ounce, 0.093 grams

### Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

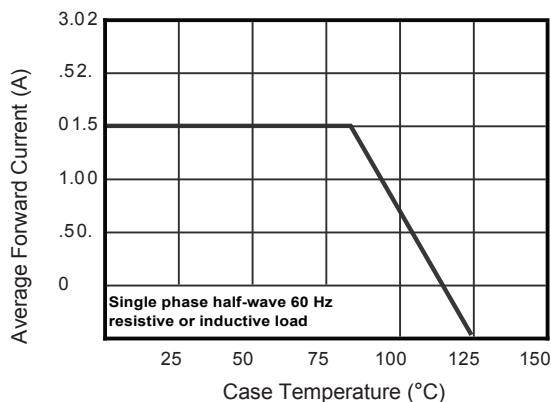
Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

Parameter	SYMBOLS	SS22	SS23	SS24	SS25	SS26	SS28	SS210	SS2150	SS2200	UNITS
Marking Code	RCD SS22B	RCD SS23B	RCD SS24B	RCD SS25B	RCD SS26B	RCD SS28B	RCD SS210B	RCD SS2150B	RCD SS2200B		
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	20	30	40	50	60	80	100	150	200	V
Maximum RMS voltage	V <sub>RMS</sub>	14	21	28	35	42	56	70	105	140	V
Maximum DC blocking voltage	V <sub>DC</sub>	20	30	40	50	60	80	100	150	200	V
Maximum average forward rectified current at TL(see fig.1)	I <sub>(AV)</sub>							2.0			A
Peak forward surge current 8.3ms single half sine-wave superimposed onrated load (JEDEC Method)	I <sub>FSM</sub>							55			A
Maximum instantaneous forward voltage at 2.0A	V <sub>F</sub>		0.55		0.70		0.85		0.95		V
Maximum DC reverse current TA=25°C TA at rated DC blocking voltage =125°C	I <sub>R</sub>				0.5				0.22		mA
Typical junction capacitance (NOTE 1)	C <sub>J</sub>		220				180				pF
Typical thermal resistance (NOTE 2)	R <sub>θJA</sub>				75.0						°C/W
Operating junction temperature range	T <sub>J</sub>		-50 to +125			-50 to +150					°C
Storage temperature range	T <sub>STG</sub>				-50 to +150						°C

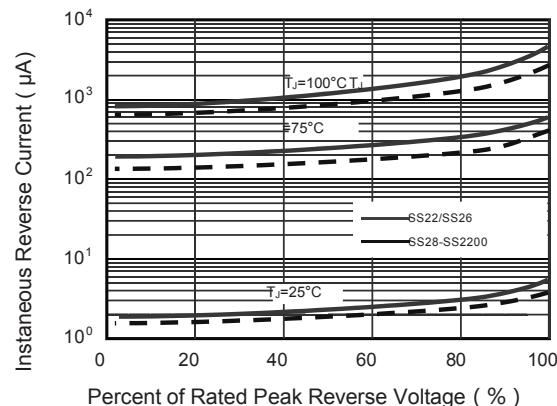
Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

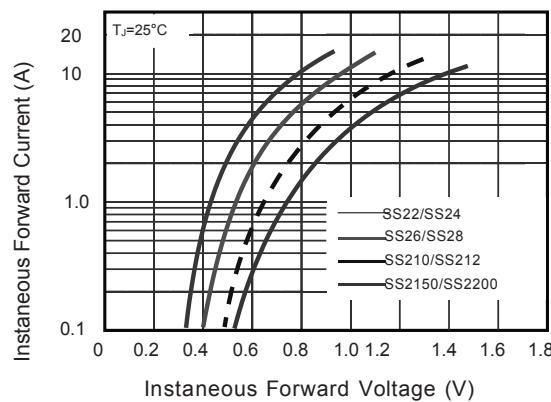
**Fig.1 Forward Current Derating Curve**



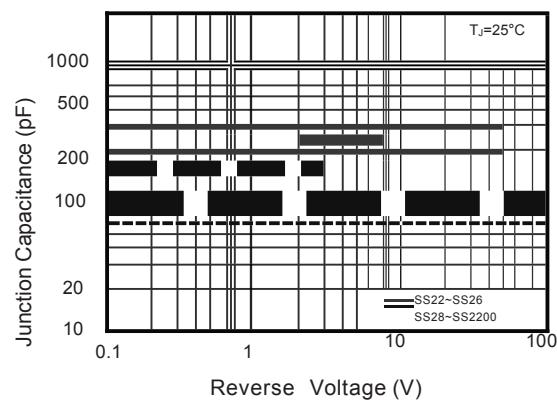
**Fig.2 Typical Reverse Characteristics**



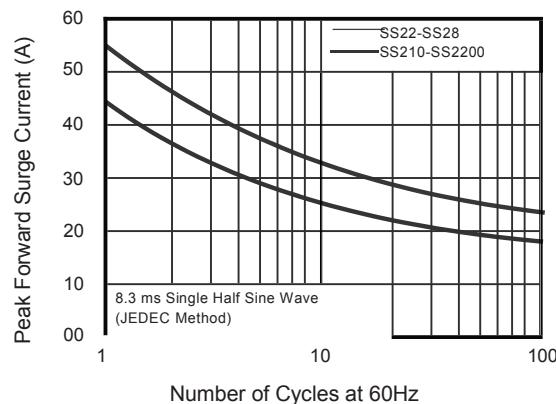
**Fig.3 Typical Forward Characteristic**



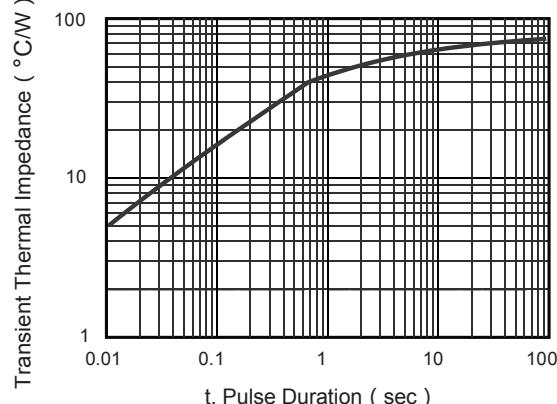
**Fig.4 Typical Junction Capacitance**



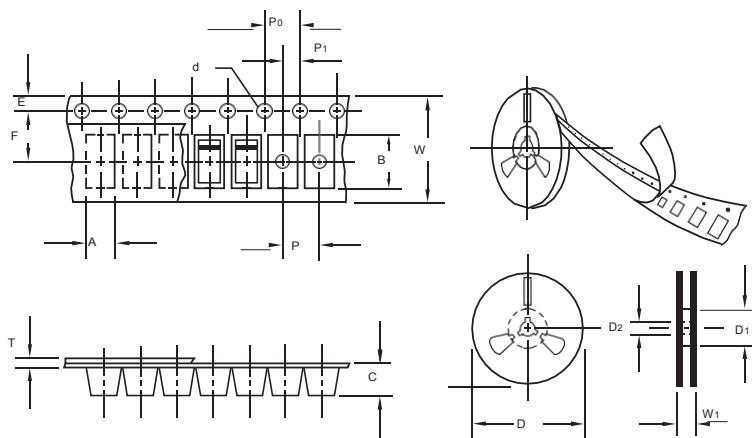
**Fig.5 Maximum Non-Repetitive Peak Forward Surge Current**



**Fig.6- Typical Transient Thermal Impedance**



The curve above is for reference only.



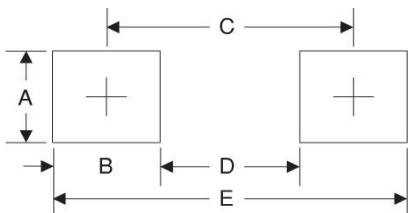
Item	Symbol	Tolerance	Unit:mm
Carrier width	A	0.1	3.81
Carrier length	B	0.1	5.41
Carrier depth	C	0.1	2.42
Sprocket hole	d	0.05	1.50
13" Reel outside diameter	D	2.0	330.00
13" Reel inner diameter	D1	min	50.00
Feed hole diameter	D2	0.5	13.00
Sprocket hole position	E	0.1	1.75
Punch hole position	F	0.1	5.55
Punch hole pitch	P	0.1	8.00
Sprocket hole pitch	P0	0.1	4.00
Embossment center	P1	0.1	2.00
Overall tape thickness	T	0.1	0.30
Tape width	W	0.3	12.00
Reel width	W1	1.0	12.30

Note: Devices are packed in accordance with EIA standard RS-481-A and specifications listed above.

## Reel packing

PACKAGE	REEL SIZE	REEL (pcs)	COMPONENT SPACING (mm)	BOX (pcs)	INNER BOX (mm)	REEL DIA, (mm)	CARTON SIZE (mm)	CARTON (pcs)	APPROX. GROSS WEIGHT (kg)
SMB	13"	3,000	4.0	6,000	190*190*41	330	365*365*360	48,000	14.0

## Suggested Pad Layout



Symbol	Unit (mm)	Unit (inch)
A	2.8	0.110
B	2.4	0.094
C	4.6	0.181
D	2.2	0.086
E	7.0	0.276