

## 5.0 Amp Schottky Barrier Rectifiers

### Features

- Low forward voltage drop
- · High current capability
- · High reliability
- High surge current capability
- · Epitaxial construction
- RoHS compliant package

#### **Mechanical Data**

- · Case: DO-201AD,
- · Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- · Lead: Lead solderable per MIL-STD-202, method 208

#### guaranteed

- Mounting position: Any
- Weight: 1.10 grams(Approximately)

### Packing & Order Information

3,000/Reel



	1.0 (25. MIN.
0.210 (5.3) 0.190 (4.8) DIA.	
	<u>0.375 (9</u> 0.285 (7
	1.0 (25. MIN.
0.052 (1.32) 0.048 (1.22) DIA.	

П

4

### Graphic symbol

1 <b>o</b> —	╉	<b>—O</b> 2
CATHODE		ANODE

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Maximum Ratings (Tc=25°C unless otherwise noted)							
		SB52	SB53	SB54	SB55	SB56	Unit
Device marking code		SB52	SB53	SB54	SB55	SB56	Unit
Maximum repetitive peak reverse voltage	VRRM	20	30	40	50	60	V
Maximum RMS voltage	VRWS	14	21	28	35	42	V
Maximum DC blocking voltage	VDC	20	30	40	50	60	V
Maximum average forward		5					A
rectified current at TL=90°C	IF(AV)						
Peak forward surge current							
8.3ms single	IFSM	IFSM 100					A
half-sine-wave							
Storage temperature range	TSTG	-55 to +150					°C



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Maximum Ratings (Tc=25°C unless otherwise noted)							
		SB52	SB53	SB54	SB55	SB56	Unit
Device marking code		SB52	SB53	SB54	SB55	SB56	Unit
Maximum instantaneous							
forward voltage at IFM=1.0A	VF	0.55		0.7		V	
(NOTE1)							
Maximum DC reverse current TJ=25°C	IR	0.5					V
At rated DC blocking voltage TJ=125°C		20					V

Thermal characteristics (Tc=25°C unless otherwise noted)					
Parameter	Symbol	Value	Unit		
Typical thermal resistance	RθJA	28	°C/W		
	Rthjl	20			

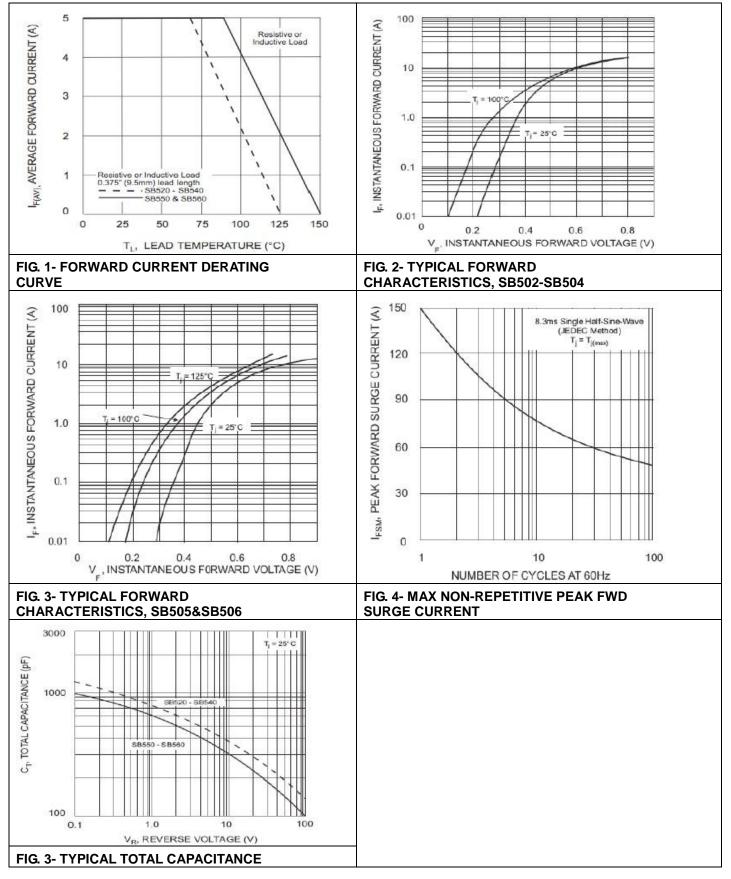
### Notes:

(1) L = 10mm





### RATINGS AND CHARACTERISTIC CURVES





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