

## SB520 thru SB560.

°C

°C/W

-55 ~ +150

43

18

## Schottky Barrier Rectifiers

Golden SEMI					0	onotta	y Barri			
DO-27			Features							
				<ul> <li>Metal-Semiconductor junction with guardring</li> <li>Epitaxial construction</li> <li>Low forward voltage drop</li> <li>High current capability</li> <li>Moisture sensitivity: level 1, per J-STD-020</li> <li>AEC-Q101 qualified</li> <li>High temperature soldering guaranteed: 260°C/10 seconds</li> <li>Halogen-free according to IEC 61249-2-21 definition</li> </ul>						
Primary characteristics			Applications							
I <sub>F(AV)</sub>		5A	For use in low voltage, high frequency inverters,							
V <sub>RRM</sub>	20V	′ to 60V	free wheeling, and polarity protection applications							
I <sub>FSM</sub>	1	50A	11							
I <sub>RM</sub>	0.	15mA	Mechanical data							
V <sub>FM</sub> at I <sub>F</sub> =5A	0.5	/0.67V	• DO-27							
T <sub>J</sub> max.	1	50 °C	」 ● Te	ooxy mee rminals: <sup>-</sup> olarity: As	Tin plate	d leads.	inability	raung		
Maximum rating (Ta	a=25°Cι	inless othe	rwise n	oted)						
Parameter			Sym		1	DO-27		Unit		
			_	SB520	SB530	SB540	SB550	SB560		
Max. repetitive peak revers	e voltage		VRRM	20	30	40	50	60	V	
Max. RMS reverse voltage			VRMS	14	21	28	35	42	V	
Max. DC blocking voltage			V <sub>DC</sub>	20	30	40	50	60	V	
Max. average forward current		I <sub>F(AV)</sub>	5 A			A				
Non-repetitive peak forward surge current 8.3ms single half-sine-wave			IFSM	150				А		
Max. instantaneous forward voltage drop per diode			VFM	0.5 0.67 V						
Max. instantaneous reverse current Ta=25 °C					0.15				<u> </u>	
at rated DC blocking voltage Ta=125 °C			I <sub>RM</sub>	15					mA	
Operating junction temperature			TJ	-55 ~ +150				°C		
			1				1			

Typical thermal resistance (Note1)

Storage temperature

#### Notes:

1 The thermal resistance from junction to lead and ambient

Tstg

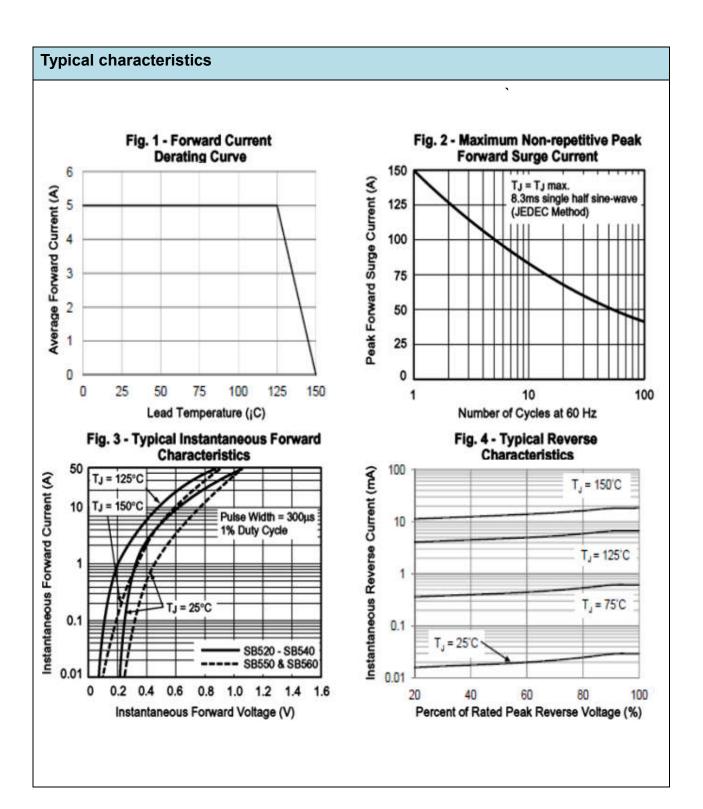
R<sub>OJ-A</sub>

R<sub>0J-L</sub>



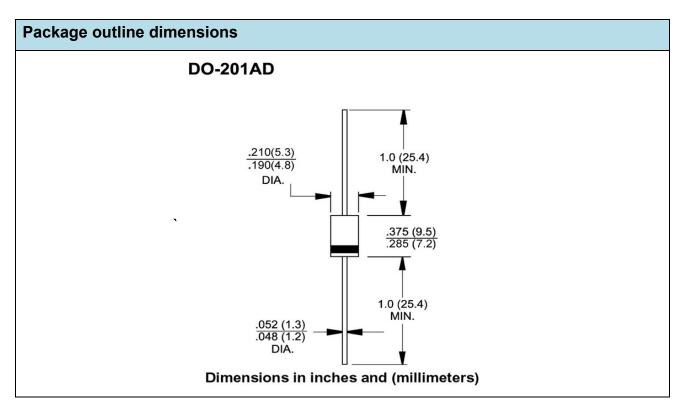
#### **Schottky Barrier Rectifiers**

Orderinginformation (Example)									
PREFERRED	UNITWEIGHT(g)	PREFERREDPACKAGECODE	BASEQUANTITY	DELIVERYMODE					
SB520									





## SB520 thru SB560. Schottky Barrier Rectifiers



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