




## 2.0 Amp. Schottky Barrier Rectifier

<b>DO-204AC / DO-15</b>  	<b>Voltage</b> 20 V to 150 V	<b>Current</b> 2.0 A	
	<b>FEATURES</b> <ul style="list-style-type: none"> <li>• Low power losses, high efficiency</li> <li>• High surge current capability</li> <li>• High frequency operation</li> <li>• Guarding for overvoltage protection</li> <li>• Low forward voltage drop</li> <li>• Solder dip 260°C, 10s</li> <li>• Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC</li> <li>• Halogen-free available according to IEC 61249-2-21 definition</li> </ul>		    <b>RoHS COMPLIANT</b> <small>HALOGEN FREE</small>
	<b>MECHANICAL DATA</b> <ul style="list-style-type: none"> <li>• <b>Case:</b> DO-204AC / DO-15. Epoxy meets UL 94V-0 flammability rating.</li> <li>• <b>Polarity:</b> Color band denotes cathode end.</li> <li>• <b>Terminals:</b> Matte tin plated leads, solderable per MIL-STD-750 Method 2026, J-STD-002 and JESD22-B102. Consumer grade, meets JESD 201 class 1A whisker test</li> </ul>		
	<b>TYPICAL APPLICATIONS</b> Used in low voltage high frequency inverters, freewheeling, dc-to-dc converters, and polarity protection applications.		

### Maximum Ratings and Electrical Characteristics at 25 °C

		SB220	SB240	SB260	SB2100	SB2150
Marking Code		SB220	SB240	SB260	SB2100	SB2150
Halogen Free Marking Code		SB220 HF	SB240 HF	SB260 HF	SB2100 HF	SB2150 HF
$V_{RRM}$	Maximum Recurrent Peak Reverse Voltage (V)	20	40	60	100	150
$V_{RMS}$	Maximum RMS Voltage (V)	14	28	42	70	105
$V_{DC}$	Maximum DC Blocking Voltage (V)	20	40	60	100	150
$I_{F(AV)}$	Max. Average Forward Rectifier Current (See graphic)	2.0 A				
$I_{FSM}$	8.3 ms. Peak Forward Surge Current (Jedec Method)	50 A				
$C_j$	Typical Junction Capacitance	120 pF		85 pF	65 pF	
$T_j$	Operating Temperature Range	-65°C to +150°C				
$T_{stg}$	Storage Temperature Range	-65°C to +150°C				

### Electrical Characteristics at Tamb = 25 °C

$V_F$	Maximum Instantaneous Forward Voltage $I_F = 2.0 A$ (Note 1)	0.55 V	0.70 V	0.85 V	0.95 V
$I_R$	Maximum D.C. Reverse Current @ $T_j = 25^\circ C$ at Rated DC Blocking Voltage @ $T_j = 125^\circ C$ (Note 3)	0.5 mA			0.1 mA
		10 mA	5.0 mA	2.0 mA	
$R_{th(j-a)}$	Typical Thermal Resistance (Note 2)	75 °C/W			

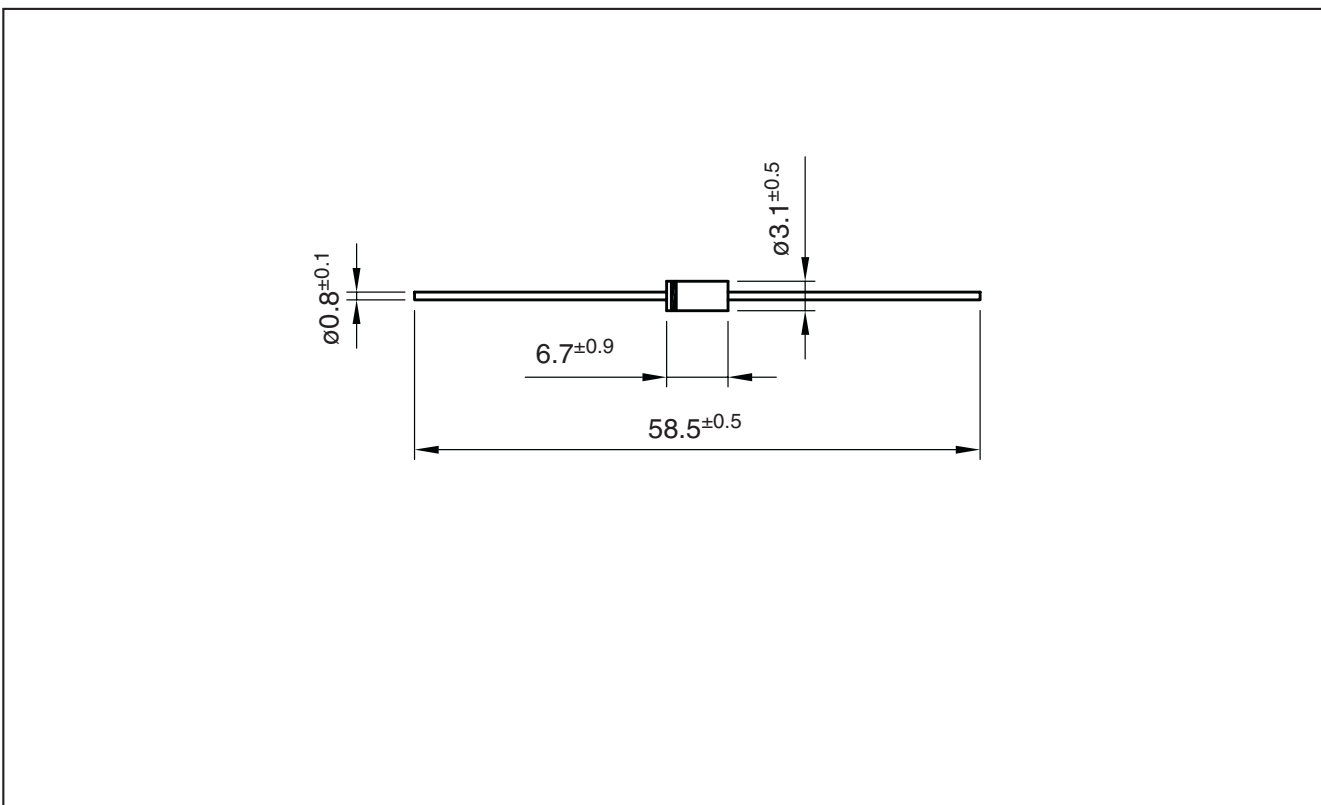
- Notes: 1. Pulse Test: 300µ Pulse Width, 1% Duty Cycle  
 2. Thermal Resistance from Junction to Case per diode  
 3. Pulse test: Pulse width ≤ 40ms

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**Ordering information**

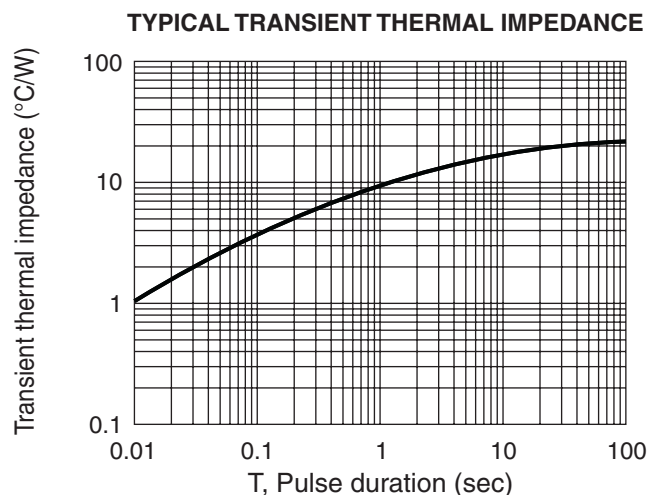
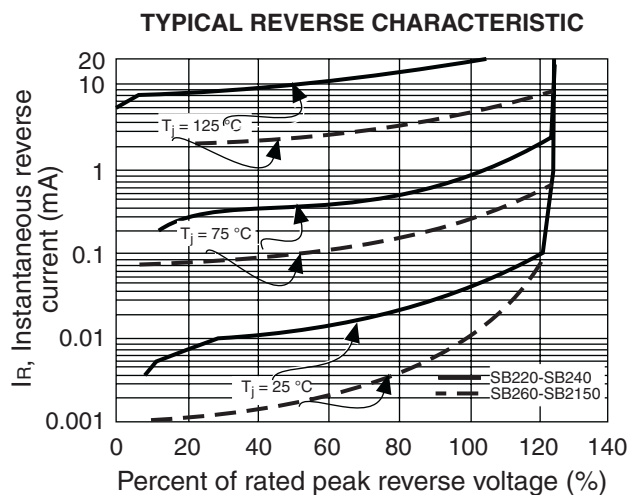
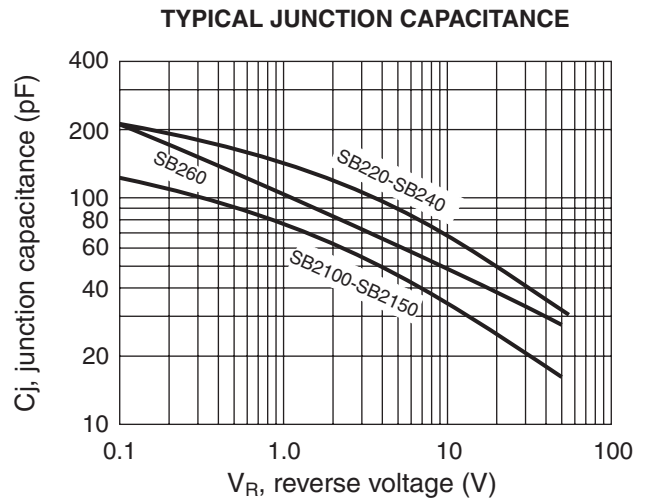
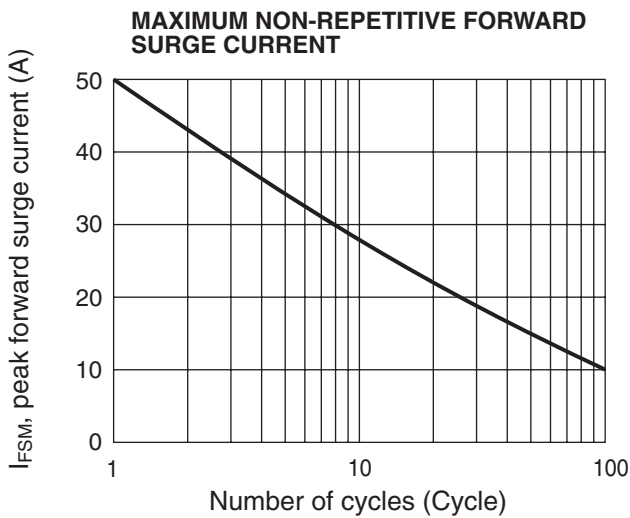
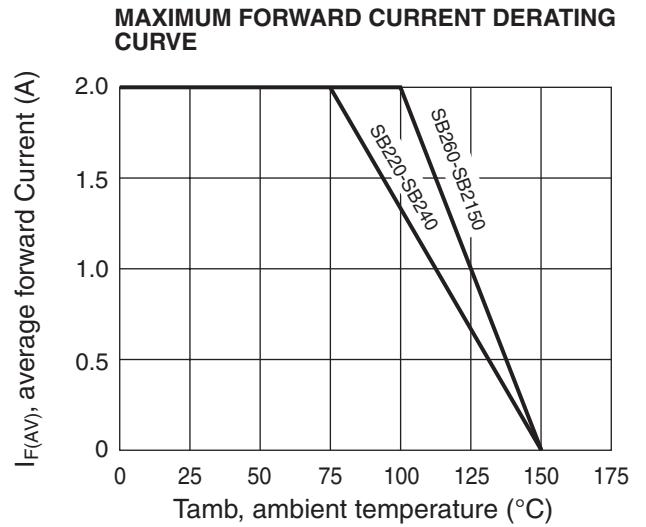
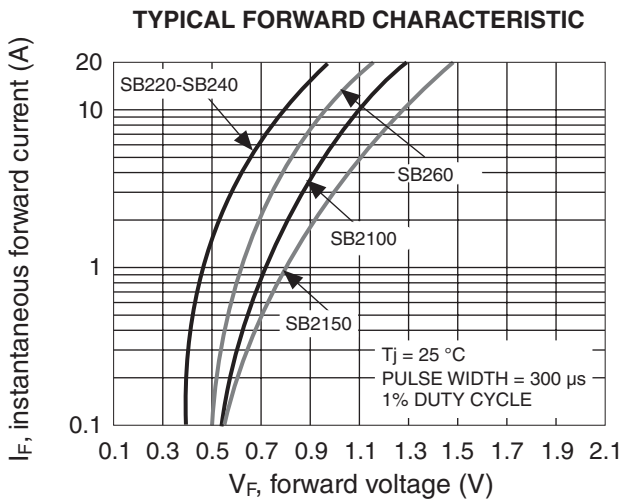
PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
SB260 AMP	AMP	AMMO BOX	1,500	0.378
SB260 TR	TR	13" diameter tape and reel	3,500	0.378
SB260 HF AMP	AMP	AMMO BOX	1,500	0.378
SB260 HF TR	TR	13" diameter tape and reel	3,500	0.378

**Package Outline Dimensions: (mm) DO-204AC / DO-15**



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#### Ratings and Characteristics (Ta 25 °C unless otherwise noted)



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### Disclaimer

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