



A Product Line of **Diodes Incorporated**

SHOTTKY RECTIFIERS	REVERSE VOLTAGE – 40 Volts FORWARD CURRENT – 2.0 Amperes		
FEATURES • Metal-Semiconductor junction with guard ring • Epitaxial construction			
 Low forward voltage drop High current capability The plastic material carries UL recognition 94V-0 For use in low voltage, high frequency inverters, free wheeling, and polarity protection application IEC 61000-4-2, level 4 (ESD), > 15KV (air) Lead-Free Finish; RoHS Compliant (Notes 1 & 2) Halogen and Antimony Free. "Green" Device (Note 3) 			
MECHANICAL DATA	DO-15		
	Dim. Min. Max.		
Package: JEDEC DO-15 molded plastic	A 25.4 -		
Polarity: Color band denotes cathode	B 5.80 7.60		
Weight: 0.015 ounces, 0.4 grams	C 0.71 Ø 0.86 Ø		
Mounting position: Any	D 2.60 Ø 3.60 Ø		
	All Dimensions in millimeter		

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

CHARACTERISTICS	SYMBOL	SB240	UNIT
Maximum Repetitive Peak Reverse Voltage	Vrrm	40	V
Maximum RMS Voltage	Vrms	28	V
Maximum DC Blocking Voltage	VDC	40	V
Maximum Average Forward Rectified Current	IAV	2.0	А
Peak Forward Surge 8.3ms single half sine-wave super imposed on rated load	IFSM	60	А
Maximum forward Voltage at 2.0A DV Maximum forward Voltage at 1.5A DV	VF	0.55	V
Maximum DC Reverse Current @Tj=25°C at Rated DC Blocking Voltage @Tj=100°C	IR	0.15 15	mA
Typical thermal Resistance (Note 4)	R⊖JC R⊖JL R⊖JA	15 18 45	°C/W
Typical Junction Capacitance (Note 5)	Cj	150	pF
Operating Junction Temperature Range	Tj	-55 to +150	°C
Storage Temperature Range	Тѕтс	-55 to +150	°C

Notes:

1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.

2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.

3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

4. Thermal Resistance Junction to Case, Lead and Ambient.

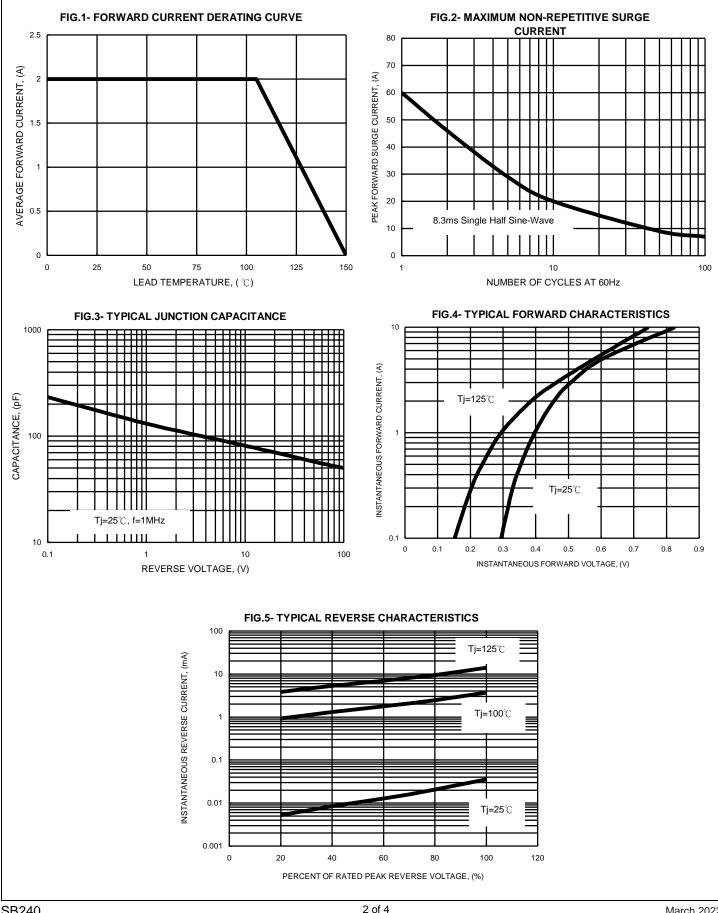
5. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

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RATING AND CHARACTERISTIC CURVES

SB240



LITE-ON

SEMICONDUCTOR

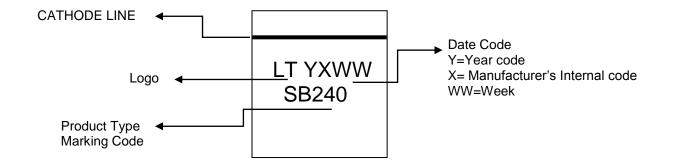
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Ordering Information:

Part Number	Packago	Packing		
	Package	Qty.	Carrier	
SB240	DO-15	4000	Tape & Reel	
SB240-A52	DO-15	2000	Ammo Box	

Marking Information:





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