

**NOT RECOMMENDED FOR NEW DESIGN
CONTACT US**

SB260

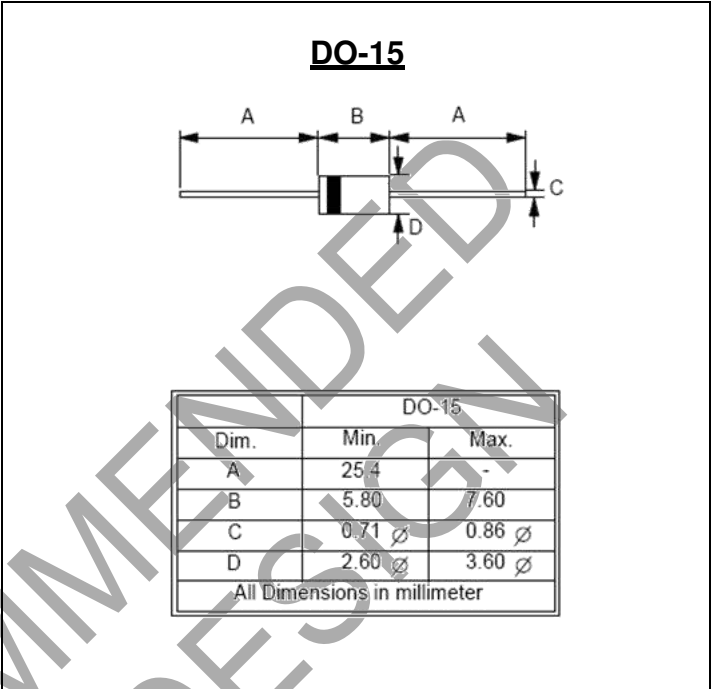
SHOTTKY RECTIFIERS	REVERSE VOLTAGE – 60 Volts FORWARD CURRENT – 2.0 Amperes
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FEATURES

- 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

- Package: JEDEC DO-15 molded plastic
- Polarity: Color band denotes cathode
- Weight: 0.015 ounces, 0.4 grams
- Mounting position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS
Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.

CHARACTERISTICS	SYMBOL	SB260	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	60	V
Maximum RMS Voltage	V_{RMS}	42	V
Maximum DC Blocking Voltage	VDC	60	V
Maximum Average Forward Rectified Current	I_{AV}	2.0	A
Peak Forward Surge 8.3ms single half sine-wave super imposed on rated load	I_{FSM}	60	A
Maximum forward Voltage at 2.0A DV	V_F	0.7	V
Maximum forward Voltage at 1.5A DV	V_F	0.65	V
Maximum DC Reverse Current @Tj=25°C at Rated DC Blocking Voltage	I_R	0.05	mA
	I_R	15	mA
Typical thermal Resistance (Note 4)	$R_{\theta JC}$	15	°C/W
	$R_{\theta JL}$	18	
	$R_{\theta JA}$	45	
Typical Junction Capacitance (Note 5)	C_j	150	pF
Operating Junction Temperature Range	T_j	-55 to +150	°C
Storage Temperature Range	TSTG	-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.

RATING AND CHARACTERISTIC CURVES
SB260

FIG.1- FORWARD CURRENT DERATING CURVE

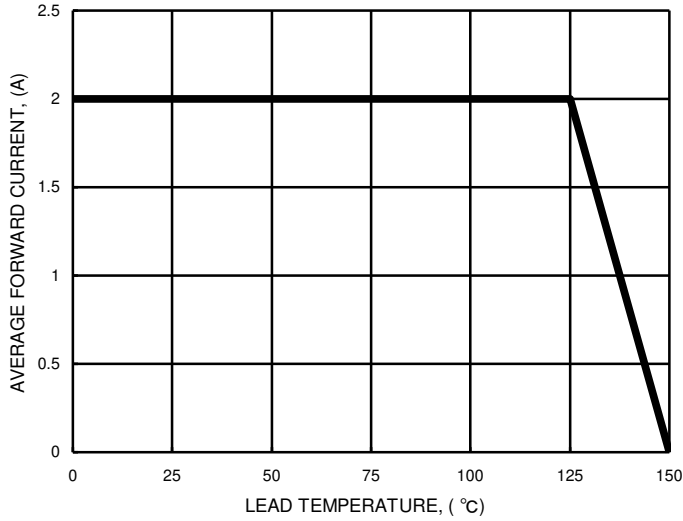


FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

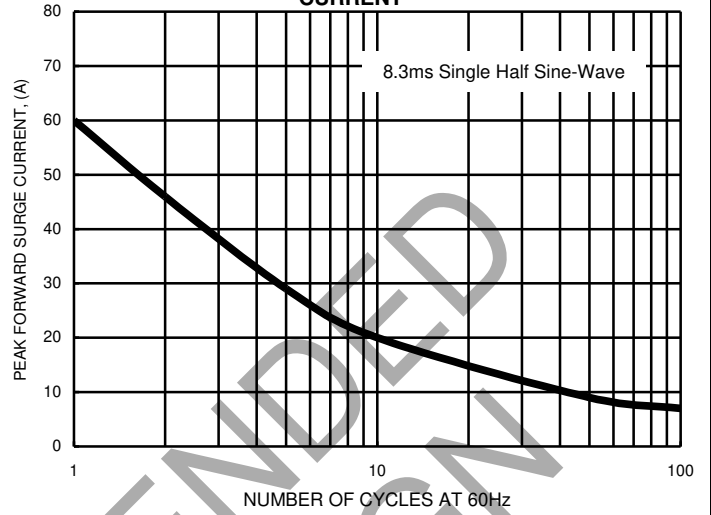


FIG.3- TYPICAL JUNCTION CAPACITANCE

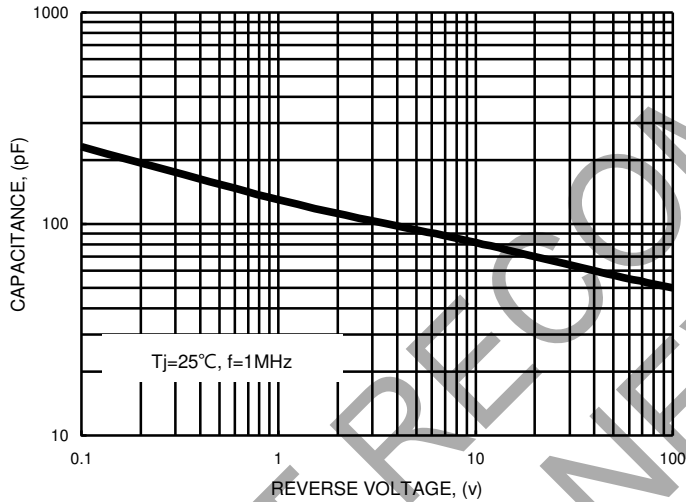


FIG.4- TYPICAL FORWARD CHARACTERISTICS

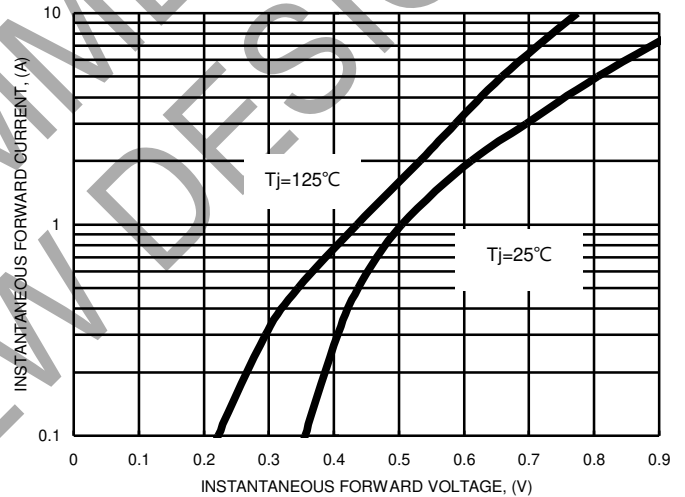
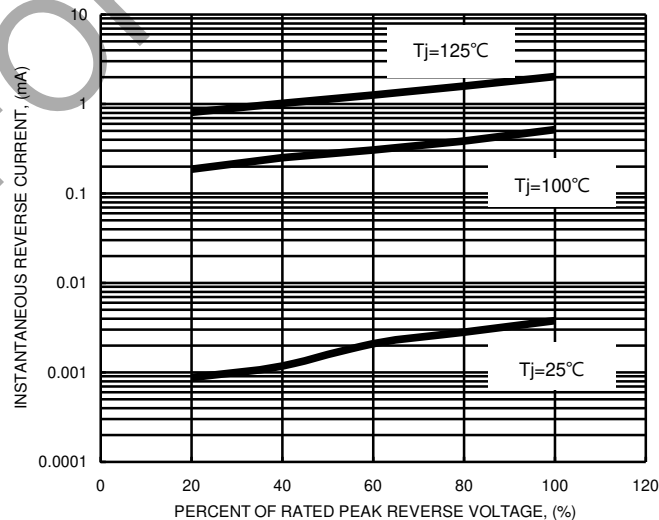


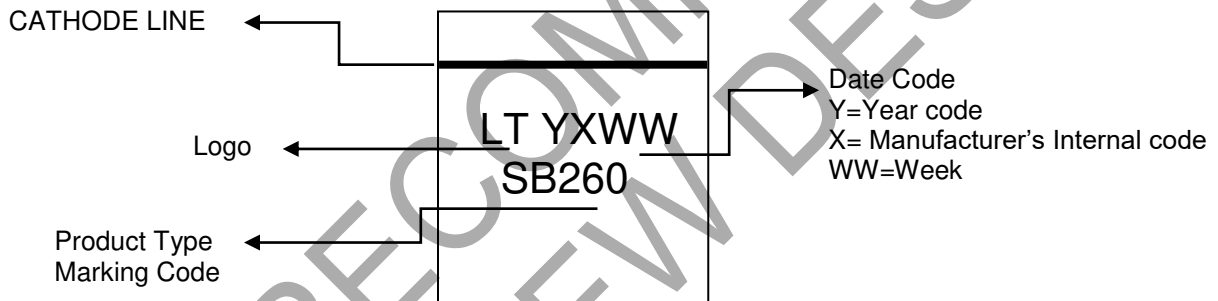
FIG.5- TYPICAL REVERSE CHARACTERISTICS



Ordering Information:

Part Number	Package	Packing	
		Qty.	Carrier
SB260	DO-15	4000	Tape & Reel
SB260-A52	DO-15	2000	Ammo Box

Marking Information:



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