

SB220 thru SB240

SHOTTKY RECTIFIERS

REVERSE VOLTAGE - 20 to 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)

MECHANICAL DATA

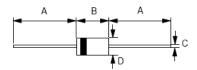
• Case: JEDEC DO-15 molded plastic

· Polarity: Color band denotes cathode

• Weight: 0.015 ounces, 0.4 grams

· Mounting position: Any

DO-15



	DO-15				
Dim.	Min.	Max.			
Α	25.4	-			
В	5.80	7.60			
С	0.71 ø	0.86 Ø			
D	2.60 Ø	3.60 Ø			
All Dimensions in millimeter					

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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%.

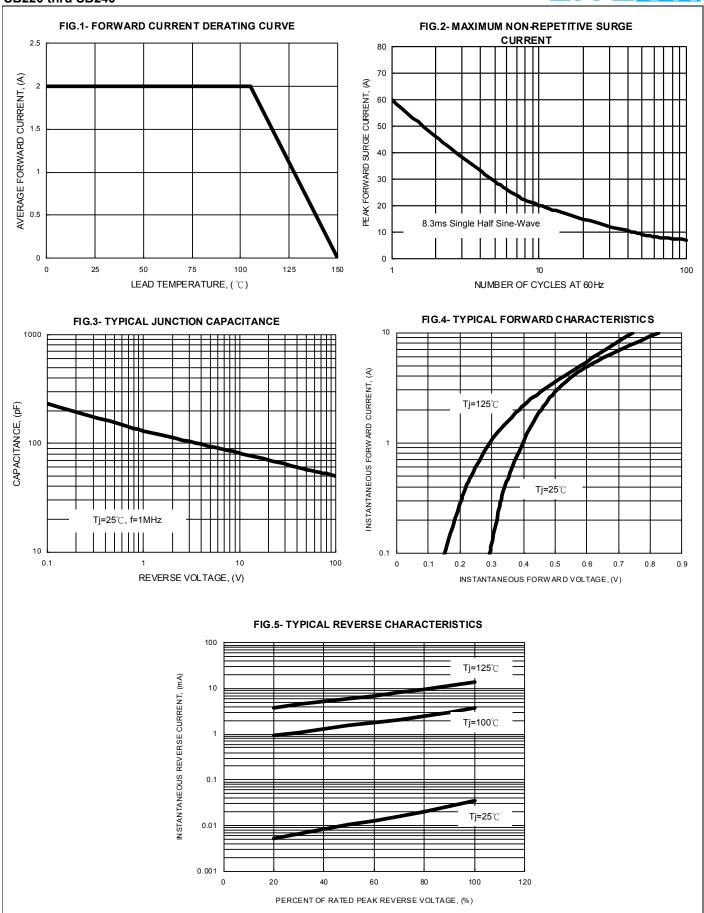
CHARACTERISTICS	SYMBOL	SB220	SB230	SB240	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	30	40	V
Maximum RMS Voltage	V _{RMS}	14	21	28	V
Maximum DC Blocking Voltage	VDC	20	30	40	Α
Maximum Average Forward Rectified Current	I _{AV}	2.0			Α
Peak Forward Surge 8.3ms single half sine-wave super imposed on rated load	I _{FSM}	60			А
Maximum forward Voltage at 2.0A DV Maximum forward Voltage at 1.5A DV	V _F	0.55 			V
Maximum DC Reverse Current @Tj=25°C at Rated DC Blocking Voltage @Tj=100°C	I _R	0.15 15			mA
Typical thermal Resistance (Note 1)	R⊖ _{JC} R⊖ _{JL} R⊖ _{JA}	15 18 45		°C/W	
Typical Junction Capacitance(Note 2)	Cj	150		pF	
Operating Junction Temperature Range	Tj	-55 to +150		°C	
Storage Temperature Range	T _{STG}	-55 to +150		°C	

Note: (1) Thermal Resistance Junction to Case, Lead and Ambient

(2) Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

REV.2, Oct-2012, KDHD04







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