

SB520 thru SB540

REVERSE VOLTAGE - 20 to 40 Volts FORWARD CURRENT - 5.0 Amperes

SCHOTTKY BARRIER RECTIFIERS

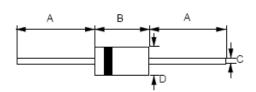
FEATURES

- · 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-201AD molded plastic
- Polarity: Color band denotes cathode
- Weight: 0.04 ounces, 1.1 grams
- Mounting position: Any

DO-201AD



DO-201AD					
Dim.	Min.	Max.			
A	25.4	-			
В	7.30	9.50			
С	1.20	1.30			
D	4.80	5.30			
All Dimensions in millimeter					

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	SB520	SB530	SB540	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 @TC=110°C Rectified Current	l _{AV}	5.0		А	
Peak Forward Surge 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	150		А	
Maximum Forward Voltage at 5.0A DC	V _F	0.55		V	
Maximum DC Reverse Current @Tj=25°C at Rated DC Blocking Voltage @Tj=100°C	I _R	0.15 20		mA	
Typical Thermal Resistance (Note 1)	R⊖ _{JL}	9.0		°C/W	
Typical Junction Capacitance (Note 2)	Cj	300		pF	
Operating Junction Temperature Range	Tj	-55 to +150		°C	
Storage Temperature Range	T _{STG}	-55 to +150			°C

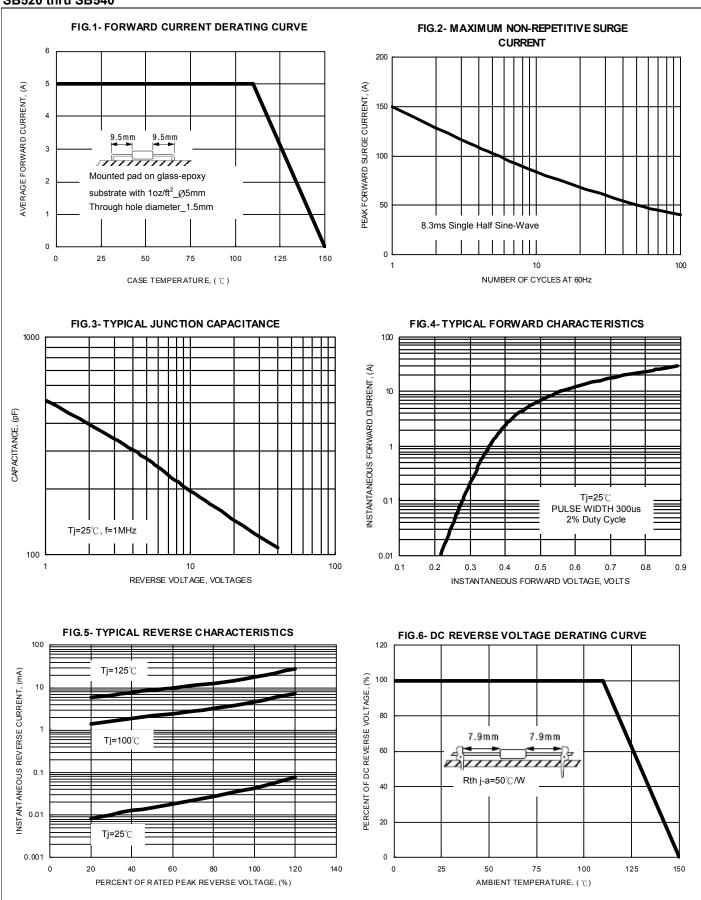
Note: (1) Thermal Resistance Junction to Lead..

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

REV.7, Sep-2012, KDHF12

RATING AND CHARACTERISTIC CURVES SB520 thru SB540







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