

SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - **20 to 60** Volts
FORWARD CURRENT - **1.0** Ampere

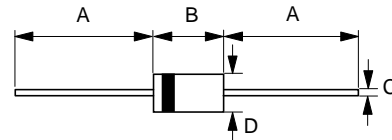
FEATURES

- 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 applications

MECHANICAL DATA

- Case : JEDEC DO-41 molded plastic
- Polarity : Color band denotes cathode
- Weight : 0.012 ounces, 0.34 grams
- Mounting position : Any

DO-41



DO-41		
Dim.	Min.	Max.
A	25.4	-
B	4.10	5.20
C	0.71 \varnothing	0.86 \varnothing
D	2.00 \varnothing	2.70 \varnothing
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	SB120	SB130	SB140	SB150	SB160	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Lengths @T _L =100°C	I <sub(av)< sub=""></sub(av)<>	1.0					A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load	I _{FSM}	40					A
Maximum forward Voltage at 1.0A DC	V _F	0.50			0.70		V
Maximum DC Reverse Current @T _J =25°C at Rated DC Blocking Voltage @T _J =100°C	I _R	0.5 10					mA
Typical Junction Capacitance (Note 1)	C _J	110			80		pF
Typical Thermal Resistance (Note 2)	R _{θJL}	15					°C/W
Operating Temperature Range	T _J	-55 to +125			-55 to +150		°C
Storage Temperature Range	T _{STG}	-55 to +150					°C

NOTES : 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2.Thermal Resistance Junction to Lead.

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