

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

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

FEATURES

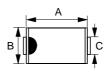
- For surface mounted applications
- Metal-Semiconductor junction with guardring
- Epitaxial construction
- Very Low forward voltage drop
- High current capability
- Plastic material has UL flammability classification 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

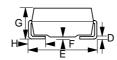
MECHANICAL DATA

• Case : Molded plastic

Polarity: Indicated by cathode bandWeight: 0.002 ounces, 0.064 grams

SMA





SMA						
DIM.	MIN.	MAX.				
Α	4.06	4.57				
В	2.29	2.92				
С	1.27	1.63				
D	0.15	0.31				
Е	4.83	5.59				
F	0.05	0.20				
G	2.01	2.62				
Н	0.76	1.52				
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	B120	B130	B140	B150	B160	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	50	60	V
Maximum RMS Voltage	VRMS	14	21	28	35	42	V
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	V
Maximum Average Forward Rectified Current @TL=100°C	I(AV)			1.0			А
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC METHOD)	IFSM			30			А
Maximum forward Voltage at 1.0A DC	VF		0.5		0	.7	V
Maximum DC Reverse Current at Rated DC Blocking Voltage @TJ = 100°C	lr			0.5 10			mA
Typical Junction Capacitance (Note 1)	Cı			110			pF
Typical Thermal Resistance (Note 2)	ReJL			20			°C/W
Operating Temperature Range	TJ			-55 to +125			°C
Storage Temperature Range	Тѕтс			-55 to +150			°C
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NOTES : 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC. $\label{eq:notes} % \begin{center} \begi$

2. Thermal Resistance Junction to Lead.

REV. 2, 01-Dec-2000, KSHA01



