

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

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

FEATURES

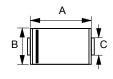
- For surface mounted applications
- Metal-Semiconductor junction with guardring
- Epitaxial construction
- Very Low forward voltage drop
- High current capability
- Plastic material has UL flammability classification 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity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

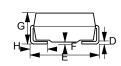
MECHANICAL DATA

• 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	2.40			
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	l(AV)	1.0					Α
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC METHOD)	IFSМ			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 =25℃ @TJ =100℃	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		-55 t	o +150	°C
Storage Temperature Range	Тѕтс	-55 to +150			°C		

NOTES: 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Thermal Resistance Junction to Lead.

REV. 5, Apr-2010, KSHA01



