

Surface Mount Schottky Barrier Rectifiers

(Pb) Lead(Pb)-Free

Feature:

- *For Surface Mount Application
- *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 , And Polarity Protection Applications

Mechanical Data

- *Case : Molded Plastic
- *Polarity :Indicated by cathode band
- *Weight : 0.002 Ounce ,0.064 grams

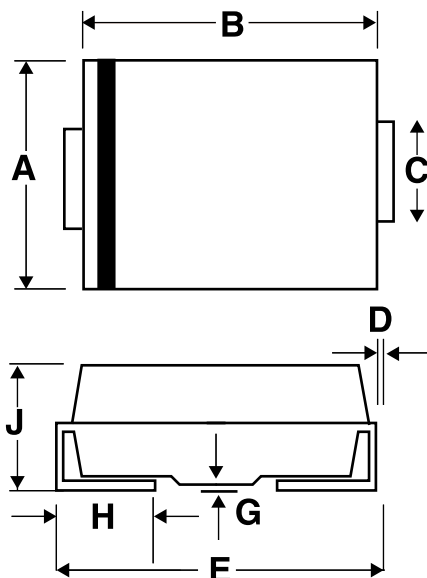
REVERSE VOLTAGE
20 TO 100 VOLTS
FOR WARD CURRENT
2.0 AMPERE



SMA(DO-214AC)

SMA Outline Dimension

Unit:mm



SMA		
Dim	Min	Max
A	2.20	2.92
B	4.00	4.60
C	1.27	1.63
D	0.15	0.31
E	4.48	5.59
G	0.10	0.20
H	0.76	1.52
J	1.70	2.62

Maximum Ratings and Electrical Characteristics

Rating 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	B220A	B230A	B240A	B250A	B260A	B280A	B290A	B2100A	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	90	100	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	63	70	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	90	100	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length (See Fig.1)	I _{F(AV)}	2.0								A
Peak Forward Surge Current,8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC)	I _{FSM}	50								A
Maximum Instantaneous At 2.0A DC	V _F	0.50			0.70		0.85			V
Maximum DC Reverse Current @Ta = 25°C At Rated DC BlockingVoltage @Ta = 100°C	I _R	0.5 20								mA
Typical Junction Capacitance ¹	C _J	170								pF
Typical Thermal Resistance ²	R _{θJA}	75								°C/W
OperatingTemperature Range	T _J	-50 to +125								°C
StorageTemperature Range	T _{STG}	-65 to +150								°C

NOTES: 1. Measured at 1.0MHz applied reverse voltage of 4.0V D.C.

2. Thermal Resistance Junction to Ambient.

RATING AND CHARACTERISTIC CURVES

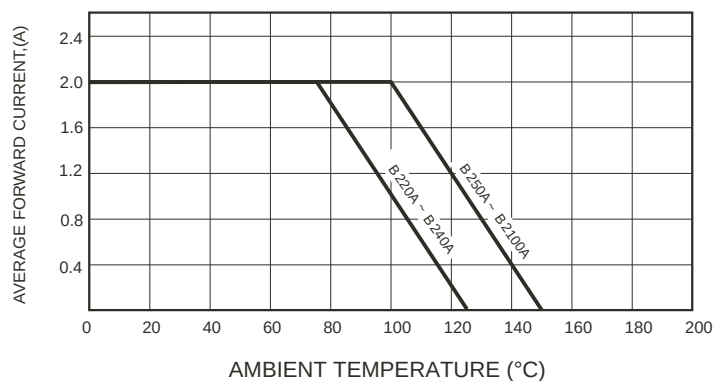


FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

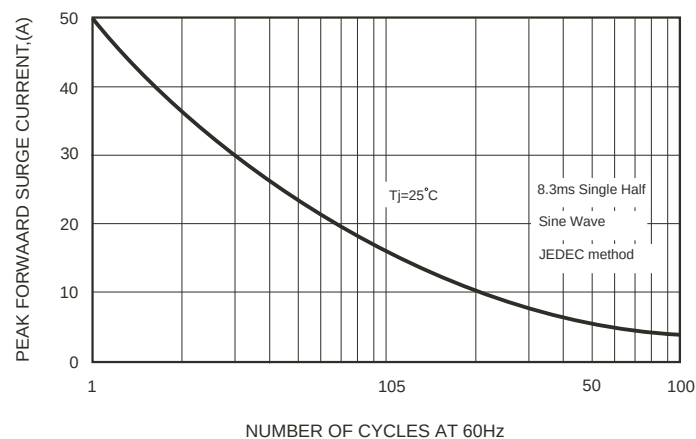


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

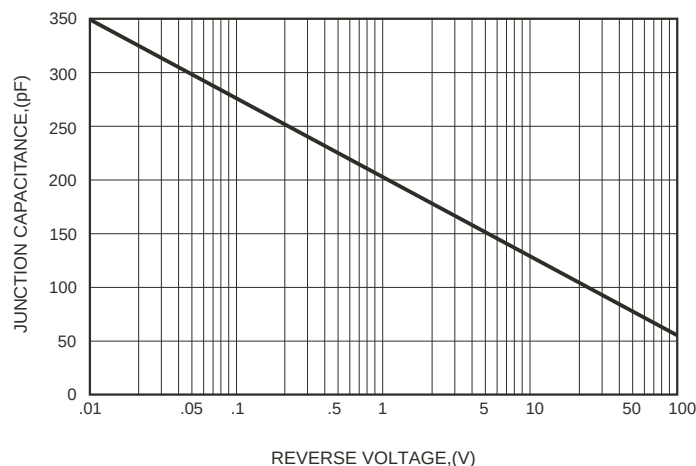


FIG.4-TYPICAL JUNCTION CAPACITANCE

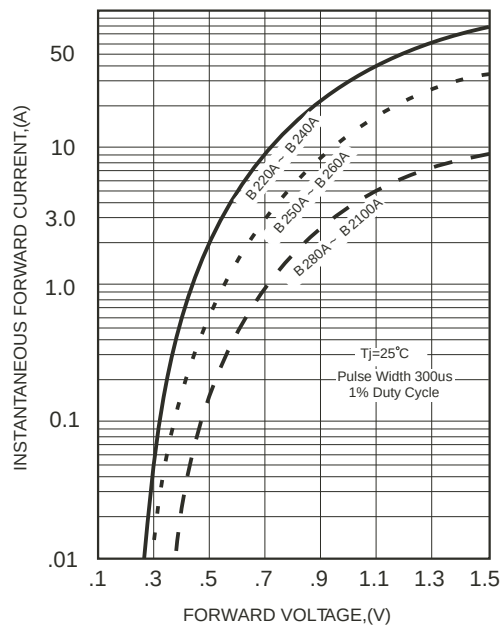


FIG.2-TYPICAL FORWARD CHARACTERISTICS

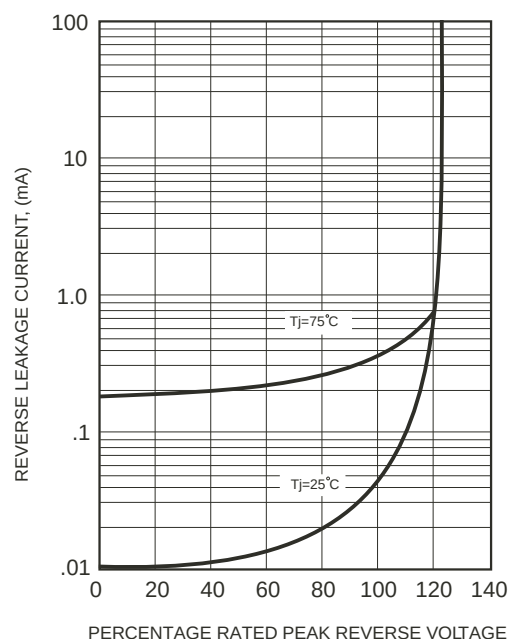


FIG.5 - TYPICAL REVERSE CHARACTERISTICS