

## Surface Mount Schottky Barrier Rectifiers

### 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

**REVERSE VOLTAGE**  
**20 TO 60 VOLTS**  
**FORWARD CURRENT**  
**2.0 AMPERE**

### Mechanical Data

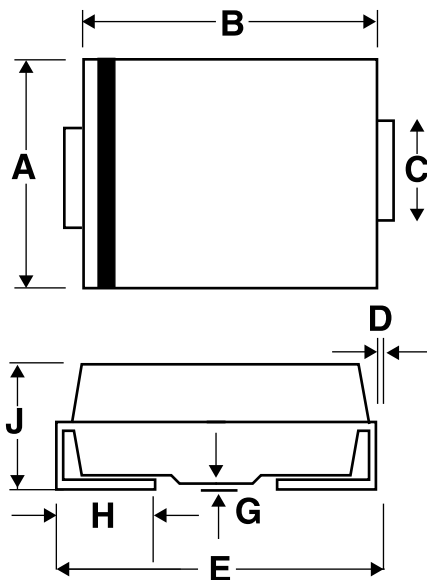
- \*Case : Molded Plastic
- \*Polarity :Indicated by cathode band
- \*Weight : 0.002 Ounce ,0.064 grams



**SMA(DO-214AC)**

## SMA Outline Dimension

Unit:mm



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

## Maximum Ratings and Electrical Characteristics

Rating 25°C Ambient Temperature Unless Otherwise Specified.

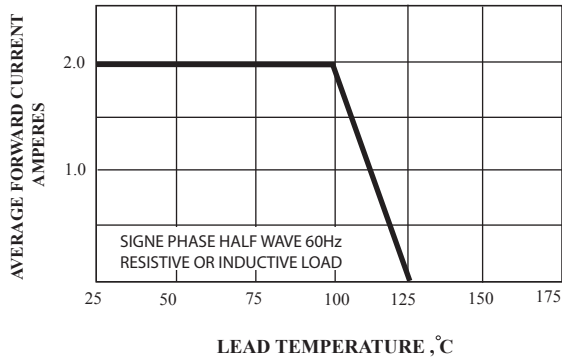
Single Phase Half Wave, 60Hz , Resistive or Inductive Load.

For Capacitive Load, Derate Current by 20%.

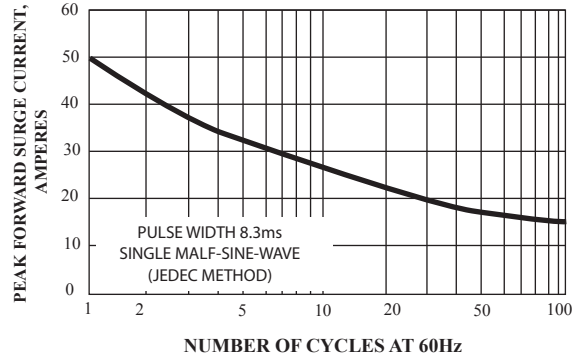
Characteristics	Symbol	B220A	B230A	B240A	B250A	B260A	Unit
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	50	60	V
Maximum RMS Voltage	VRMS	14	21	28	35	42	V
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	V
Maximum Average Forward Rectified Current @TC=100°C	IF(AV)	2.0					A
Peak Forward Surge Current, 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	50					A
Maximum Instantaneous At 2.0A DC	VF	0.5			0.7		V
Maximum DC Reverse Current @Tj=25°C At Rated DC Blocking Voltage @Tj=100°C	IR	0.5 20					mA
Typical Junction Capacitance (Note 1)	C <sub>J</sub>	200					PF
Typical Thermal Resistance (Note 2)	R <sub>θJL</sub>	15					°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to+125					°C
Storage Temperature Range	TSTG	-55 to+150					°C

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

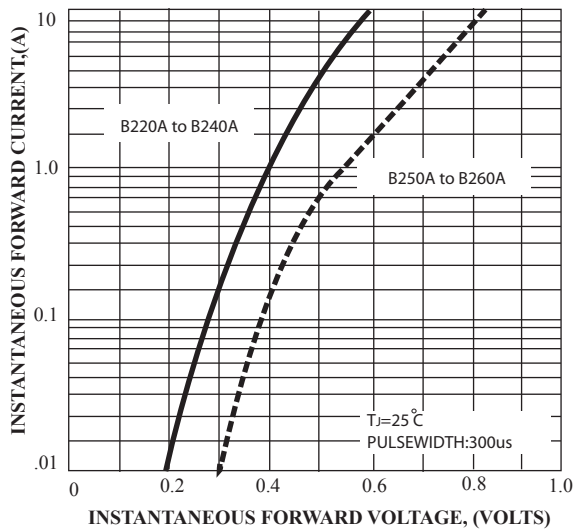
2.Thermal Resistance Junction to case.



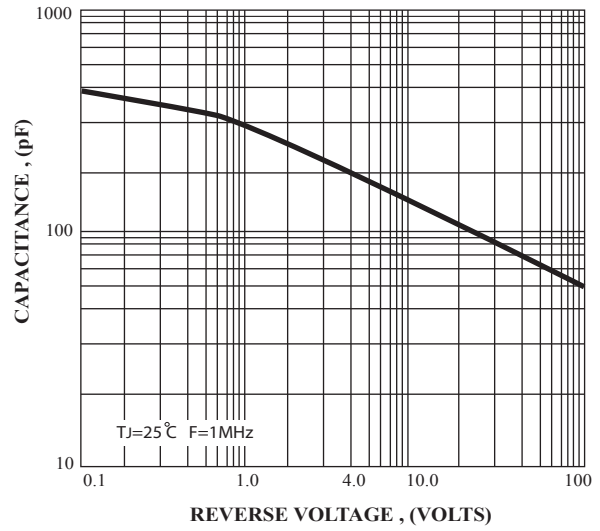
**FIG.1 Forward Current Derating Curve**



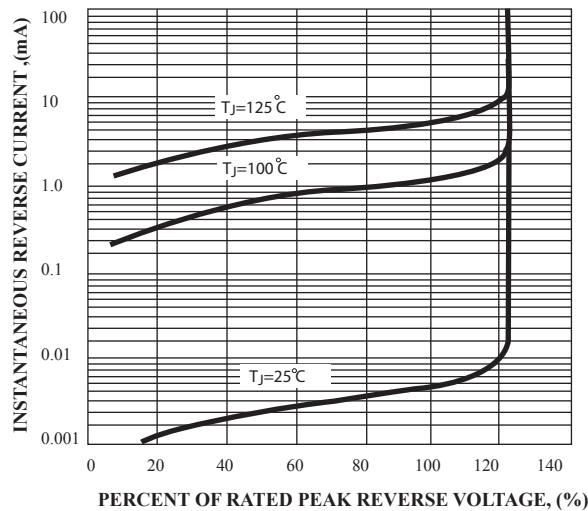
**FIG.2 Maximum Non-Repetitive Surge Current**



**FIG.3 Typical Forward Characteristics**



**FIG.4 Typical Junction Capacitance**



**FIG.5 Typical Reverse Characteristics**