



# B220A-B260A

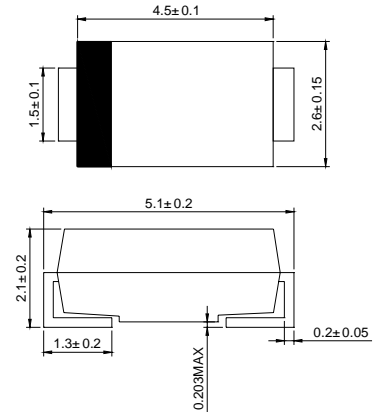
Surface Mount Schottky Barrier Rectifiers

**REVERSE VOLTAGE: 20 --- 60 V**  
**CURRENT: 2.0 A**

**DO - 214AC(SMA)**

## Features

- ◇ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◇ For surface mounted applications
- ◇ Low profile package
- ◇ Built-in strain relief
- ◇ Metal silicon junction, majority carrier conduction
- ◇ High surge capability
- ◇ High current capability, low forward voltage drop
- ◇ Low power loss, high efficiency
- ◇ For use in low voltage high frequency inverters, free wheeling and polarity protection applications
- ◇ Guardring for overvoltage protection
- ◇ High temperature soldering guaranteed: 250°C/10 seconds at terminals



Dimensions in millimeters

## Mechanical Data

- ◇ Case: JEDEC DO-214AC, molded plastic over passivated chip
- ◇ Polarity: Color band denotes cathode end
- ◇ Weight: 0.002 ounces, 0.064 gram

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

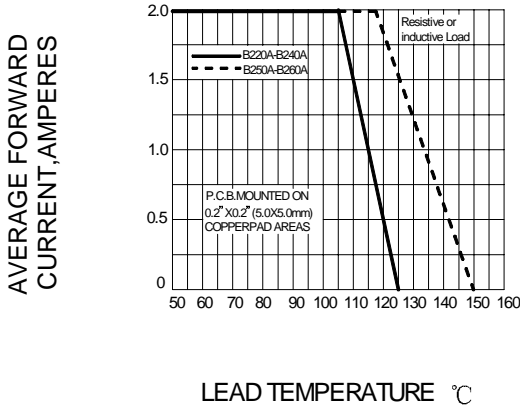
		B220A	B230A	B240A	B250A	B260A	UNITS
Maximum recurrent peak reverse voltage	$V_{RRM}$	20	30	40	50	60	V
Maximum RMS voltage	$V_{RWS}$	14	21	28	35	42	V
Maximum DC blocking voltage	$V_{DC}$	20	30	40	50	60	V
Maximum average forward rectified current at $T_J$ (SEE FIG.1)	$I_{(AV)}$	2.0					A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	50.0					A
Maximum instantaneous forward voltage at 2.0A (NOTE.1)	$V_F$	0.5			0.7		V
Maximum DC reverse current (NOTE1) @ $T_A=25^\circ\text{C}$ at rated DC blocking voltage @ $T_A=100^\circ\text{C}$	$I_R$	0.5 20.0					mA
Typical junction capacitance (NOTE2)	$R_{\theta JL}$	15.0					°C/W
Operating junction and storage temperature range	$T_{STG}$	-65 --- +150					°C
Storage temperature range	$T_J$	-65 --- +150			-65 --- +150		°C

NOTE: 1. Pulse test: 300 μs pulse width, 1% duty cycle

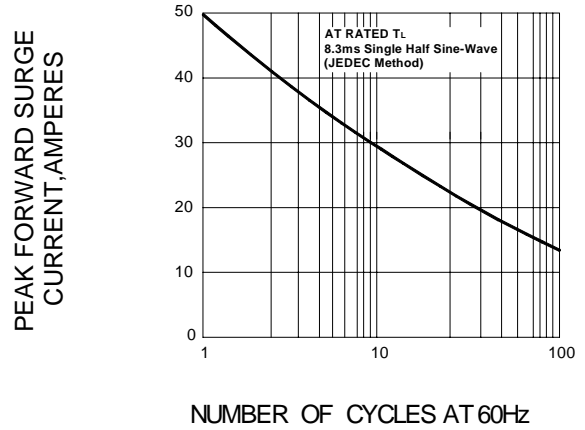
2. P.C.B. mounted with 0.2"X0.2" (5.0X5.0mm<sup>2</sup>) copper pad areas

## Ratings AND Characteristic Curves

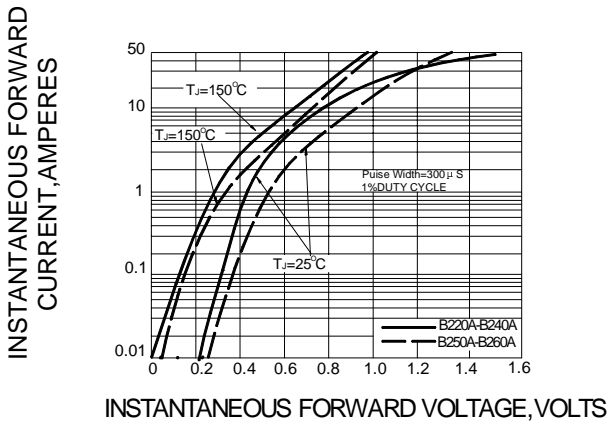
**FIG.1 – FORWARD DERATING CURVE**



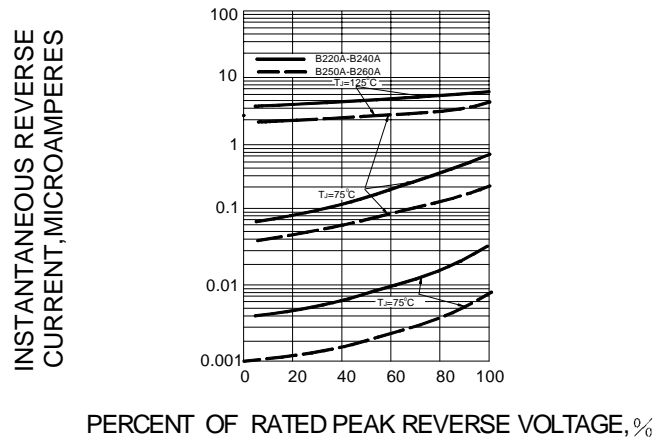
**FIG.2- PEAK FORWARD SURGE CURRENT**



**FIG.3 – TYPICAL FORWARD CHARACTERISTICS**



**FIG.4 – TYPICAL REVERSE CHARACTERISTICS**



**FIG.5-TYPICAL JUNCTION CAPACITANCE**

