

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

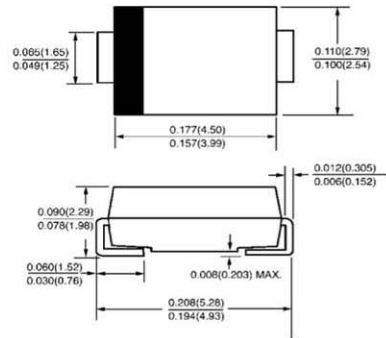
REVERSE VOLTAGE: 20 --- 60 V  
CURRENT: 2.0 A

### 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

### MECHANICAL DATA

- ◇ Case: JEDEC DO-214AC, molded plastic over passivated chip
- ◇ Terminals: Solder Plated, solderable per MIL-STD-750, Method 2026
- ◇ Polarity: Color band denotes cathode end
- ◇ Weight: 0.002 ounces, 0.064 gram



DO-214AC(SMA) inch(mm)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

		B220A	B230A	B240A	B250A	B260A	UNITS
Device marking code		B 220A	B 230A	B 240A	B 250A	B 260 A	
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 $T_c$ (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)	$R_{JL}$	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

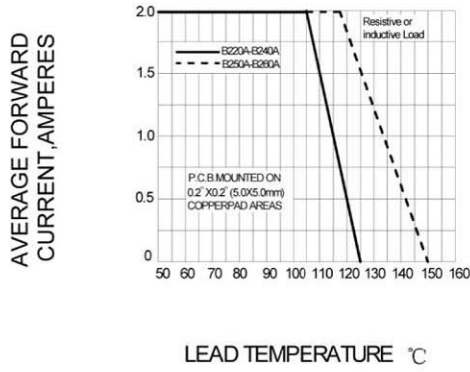
NOTE: 1. Pulse test: 300  $\mu$  S pulse width, 1% duty cycle  
2. P. C. B. mounted with 0.2"X0.2" (5.0X5.0mm<sup>2</sup>) copper pad areas

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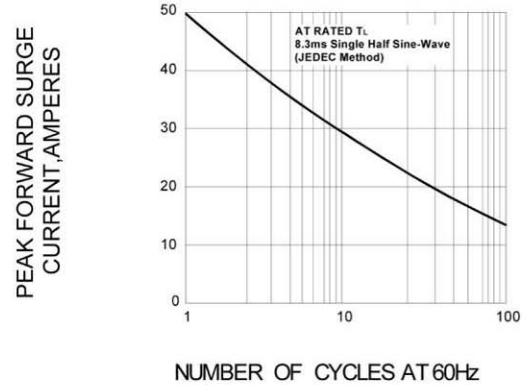
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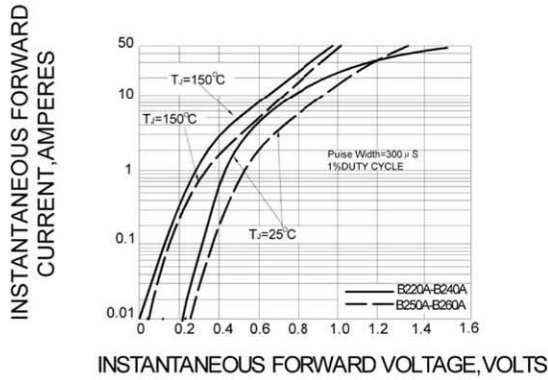
**FIG.1 – FORWARD DERATING CURVE**



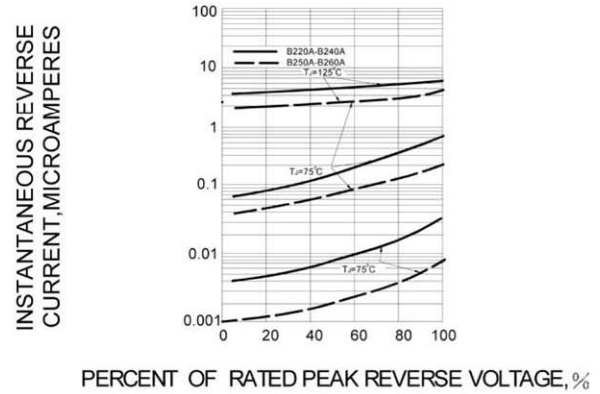
**FIG.2- PEAK FORWARD SURGE CURRENT**



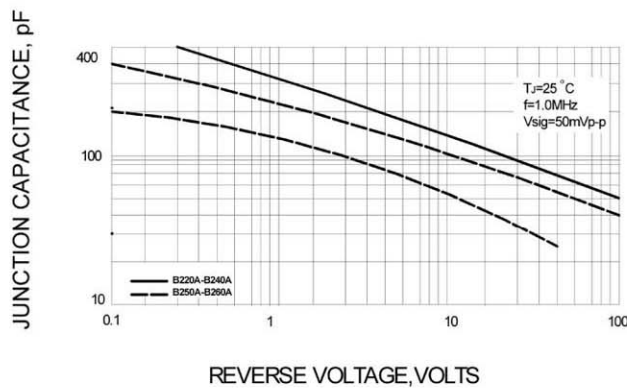
**FIG.3 – TYPICAL FORWARD CHARACTERISTICS**



**FIG.4 – TYPICAL REVERSE CHARACTERISTICS**



**FIG.5-TYPICAL JUNCTION CAPACITANCE**



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