



B220 thru B240

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 20 to 40 Volts FORWARD CURRENT - 2.0 Amperes

SMB

FEATURES

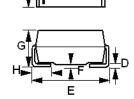
- · For surface mounted application
- · Metal-Semiconductor junction with guard ring
- · Epitaxial construction
- Very Low forward voltage drop
- · High current capability
- •Plastic material has UL flammability classification 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and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

MECHANICAL DATA

· Case: Molded plastic

Polarity: Color band denotes cathodeWeight: 0.002 ounces, 0.064 grams

V-0



SMB DIM. MIN. MAX. Α 4.06 4.57 3.30 В 3.94 С 1.96 2.21 D 0.15 0.31 Ε 5.21 5.59 F 0.05 0.20 G 2.01 2.50 Н 0.76 1.52

All Dimensions in millimeter

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	B220	B230	B240	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	V
Maximum RMS Voltage	V _{RMS}	14	21	28	V
Maximum DC Blocking Voltage	VDC	20	30	40	Α
Maximum Average Forward Rectified Current @TL=100°C	I _{AV}	2.0			А
Peak Forward Surge 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	50			А
Maximum Forward Voltage at 2.0A DC	V _F	0.5			V
Maximum DC Reverse Current @Tj=25°C at Rated DC Blocking Voltage @Tj=100°C	I _R	0.5 15			mA
Typical Junction Capacitance (Note 1)	Cj	200			pF
Typical Thermal Resistance (Note 2)	R⊕JL	25			°C/W
Operating Junction Temperature Range	Tj	-55 to +125			°C
Storage Temperature Range	T _{STG}		-55 to +150		°C

Note: (1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC...

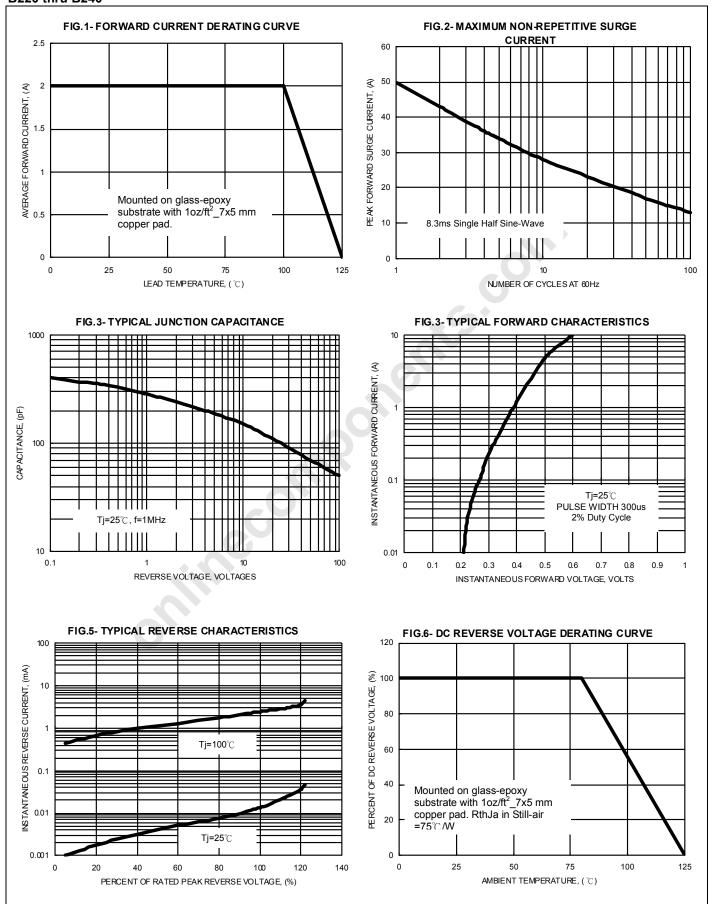
(2) Thermal Resistance Junction to Lead

REV.2, Oct-2010, KSHB14



RATING AND CHARACTERISTIC CURVES B220 thru B240









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