



FEATURES

- * Ideal for surface mount applications
- * Easy pick and place
- * Built-in strain relief
- * Low forward voltage drop

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Metallurgically bonded construction
- * Polarity: Color band denotes cathode end
- * Mounting position: Any

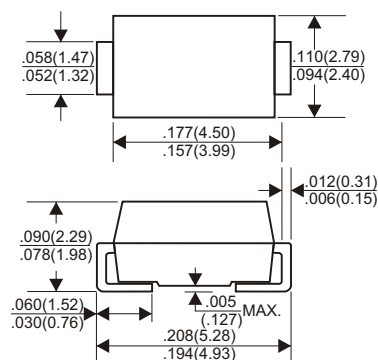
VOLTAGE RANGE

20 to 60 Volts

CURRENT

2.0 Amperes

DO-214AC(SMA)



Dimensions in inches and (millimeters)

Maximum Ratings (@T_A = +25°C, unless otherwise specified.)

Single phase, half wave, 60Hz, resistive or inductive load. For capacitance load, derate current by 20%.

Characteristic	Symbol	B220A	B230A	B240A	B250A	B260A	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	20	30	40	50	60	V
Working Peak Reverse Voltage	V _{RWM}						
DC Blocking Voltage	V _R						
RMS Reverse Voltage	V _{R(RMS)}	14	21	28	35	42	V
Average Rectified Output Current	I _O	2.0					A
Non-Repetitive Peak Forward Surge Current, 8.3ms	I _{FSM}	50					A
Single Half Sine-Wave Superimposed on Rated Load							

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Typical Thermal Resistance, Junction to Lead	R _{θJL}	25	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150	°C

B220A THRU B260A

Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

Characteristic		Symbol	Min	Typ	Max	Unit	Test Condition
Forward Voltage Drop	B220/A, B230/A, B240/A B250/A, B260/A	V _F	—	—	0.50 0.70	V	I _F = 2.0A, T _A = +25°C
Leakage Current (Note 6)		I _R	—	—	0.5 20	mA	@ Rated V _R , T _A = +25°C @ Rated V _R , T _A = +100°C
Total Capacitance		C _T	—	—	200	pF	V _R = 40V, f = 1MHz

Note: 6. Short duration pulse test used to minimize self-heating effect.

RATING AND VCHARACTERISTIC CURVES(B220A THUR B260A)

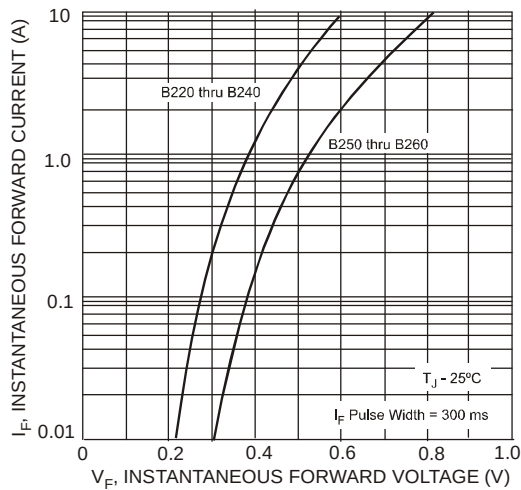


Fig. 1 Typical Forward Characteristics

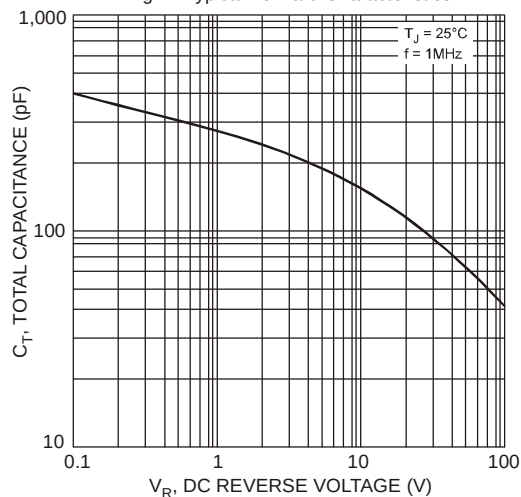


Fig. 3 Total Capacitance vs. Reverse Voltage

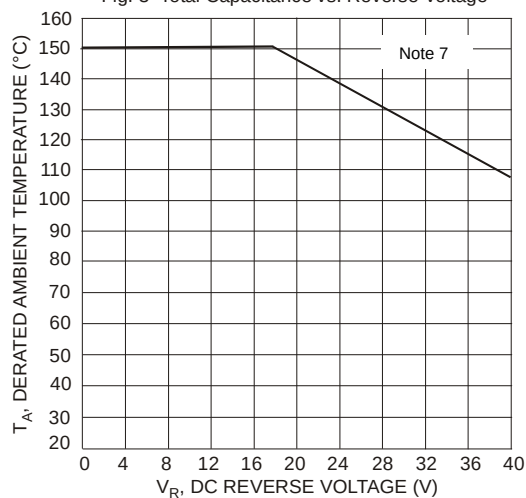


Fig. 5 Operating Temperature Derating (B240)

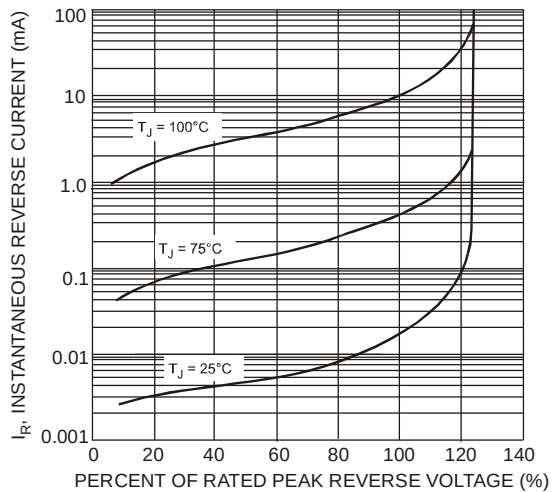


Fig. 2 Typical Reverse Characteristics

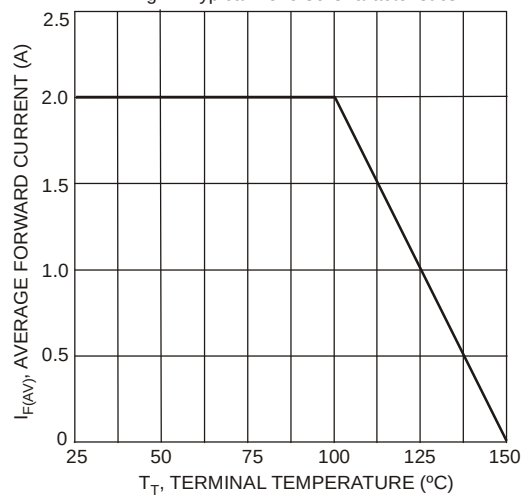


Fig. 4 Forward Current Derating Curve

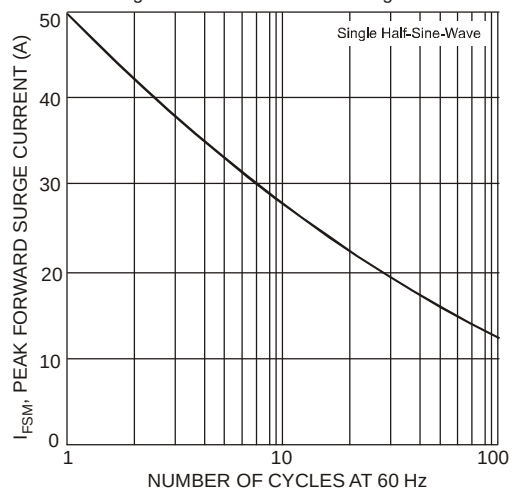


Fig. 6 Max Non-Repetitive Peak Forward Surge Current