



Features:

- For Surface Mounted Applications
- Low Profile Package
- Built-In Strain Relief
- Metal Silicon Junction, Majority Carrier Conduction
- High Surge Capability
- Low Power Loss, High Efficiency
- For Use In Low Voltage High Frequency Inverters, Free Wheeling And Polarity Protection Applications
- Guard Ring For Over Voltage Protection
- High Temperature Soldering Guaranteed : 250°C/10 Seconds At Terminals

Mechanical Data

- Case: JEDEC SMA, molded plastic over passivated chip
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity : Colour band denotes cathode end
- Weight : 0.002oz, 0.064g

Maximum Ratings and Thermal Characteristics

Ratings at 25°C ambient temperature unless otherwise specified

Characteristic	Symbol	B230A-13-F	B240A-13-F	B260A-13-F	Units
Maximum repetitive peak reverse voltage	V_{RRM}	30	40	60	V
Maximum RMS voltage	V_{RWS}	21	28	42	V
Maximum DC blocking voltage	V_{DC}	30	40	50	V
Maximum average forward rectified current at T_L = See Fig. 1	$I_{F(AV)}$	2			A
Peak forward surge current 8.3ms single half-sine-wave	I_{FSM}	50			A
Maximum instantaneous forward voltage at 2A (Note 1)	V_F	0.5		0.7	V
Maximum DC reverse current at $T_A=25^\circ\text{C}$ at rated DC blocking voltage $T_A=100^\circ\text{C}$ (Note 1)	I_R	0.5 20			mA
Typical thermal resistance (Note 2)	$R_{\theta JL}$	15			°C/W
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +125			°C

Notes:

- (1) Pulse test : 300μS pulse width, 1% duty cycle.
 (2) PCB mounted with 0.55" × 0.55" (14 × 14mm²) copper pad areas.

FIG.1 – FORWARD DERATING CURVE

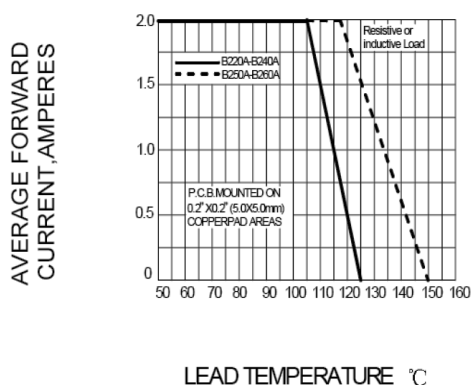


FIG.2– PEAK FORWARD SURGE CURRENT

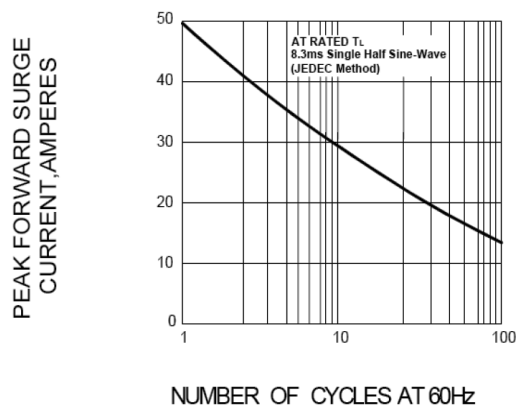


FIG.3 – TYPICAL FORWARD CHARACTERISTICS

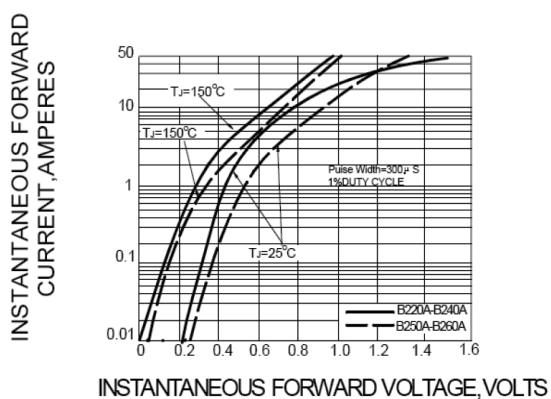


FIG.4 – TYPICAL REVERSE CHARACTERISTICS

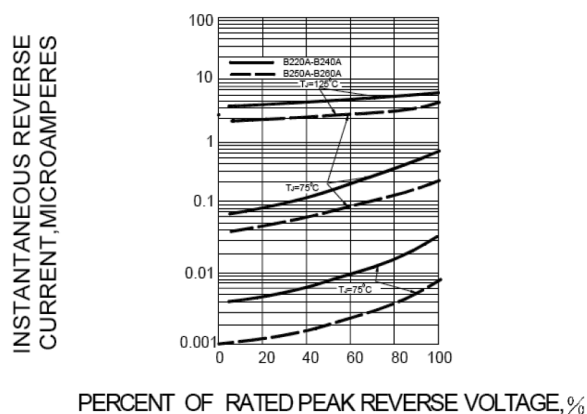
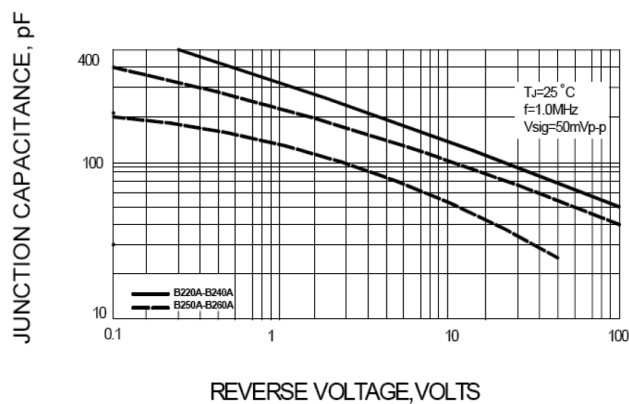
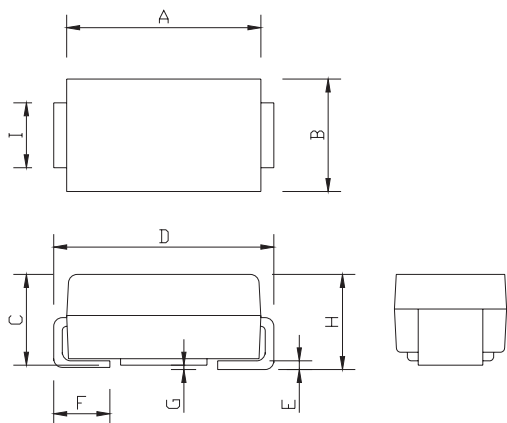


FIG.5-TYPICAL JUNCTION CAPACITANCE



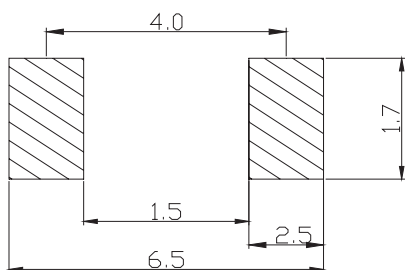
Package Outline Dimensions



DO-214AC(SMA)		
Dim.	Min.	Max.
A	4.25	4.65
B	2.4	2.8
C	1.85	2.15
D	4.85	5.35
E	0.2 Typ.	
F	0.9	1.5
G	0.2 Max.	
H	1.9	2.3
I	1.35	1.65

Dimensions : Millimetres

Soldering Footprint



Dimensions : Millimetres

Package Information

Device	Package	Shipping
B230A-13-F B240A-13-F B260A-13-F	DO-214AC(SMA)	5,000 / Tape & Reel

Part Number Table

Description	Part Number
Schottky Barrier Rectifier	B230A-13-F
	B240A-13-F
	B260A-13-F

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