



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 SMC, molded plastic over passivated chip
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Colour band denotes cathode end
- Weight: 0.007oz, 0.21g

Maximum Ratings and Thermal Characteristics

Ratings at 25°C ambient temperature unless otherwise specified

Characteristic		B340-13-F	Units
Maximum repetitive peak reverse voltage	V_{RRM}	40	V
Maximum RMS voltage	V_{RWS}	28	V
Maximum DC blocking voltage	V_{DC}	40	V
Maximum average forward rectified current at T_L =See Fig. 1. (Note 1)	$I_{F(AV)}$	3	A
Peak forward surge current 8.3ms single half-sine-wave	I_{FSM}	100	A
Maximum instantaneous forward voltage at 3A (Note 1)	V_F	0.5	V
Maximum DC reverse current at $T_A = 25^\circ\text{C}$ at rated DC blocking voltage at $T_A = 100^\circ\text{C}$ (Note 1)	I_R	0.5 20	mA
Typical thermal resistance (Note 2)	$R_{\theta JA}$ $R_{\theta JL}$	50 10	$^\circ\text{C/W}$
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +125	$^\circ\text{C}$

Notes:

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

FIG.1 – FORWARD DERATING CURVE

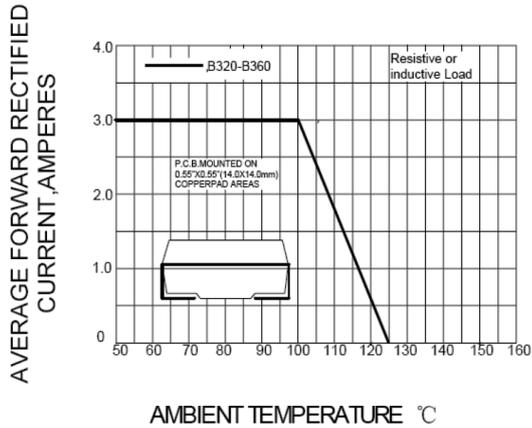


FIG.2– PEAK FORWARD SURGE CURRENT

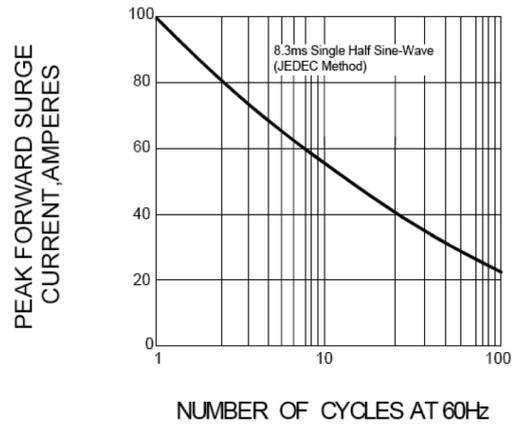


FIG.3 – TYPICAL FORWARD CHARACTERISTICS

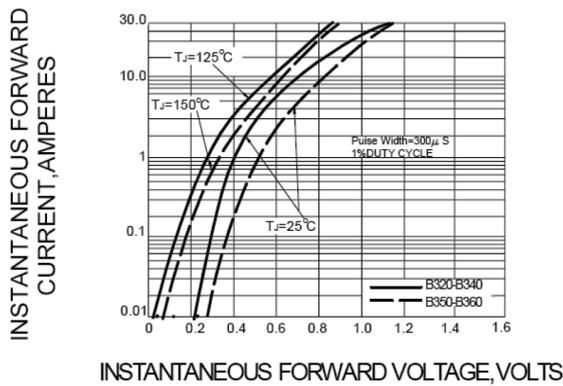


FIG.4 – TYPICAL REVERSE CHARACTERISTICS

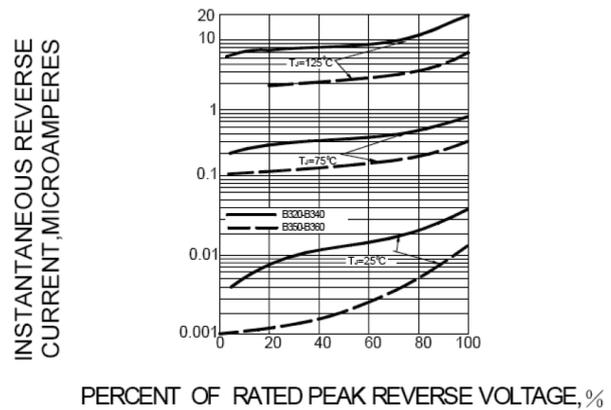


FIG.5-TYPICAL JUNCTION CAPACITANCE

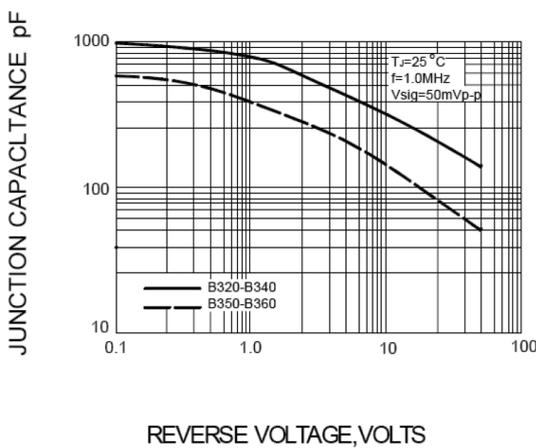
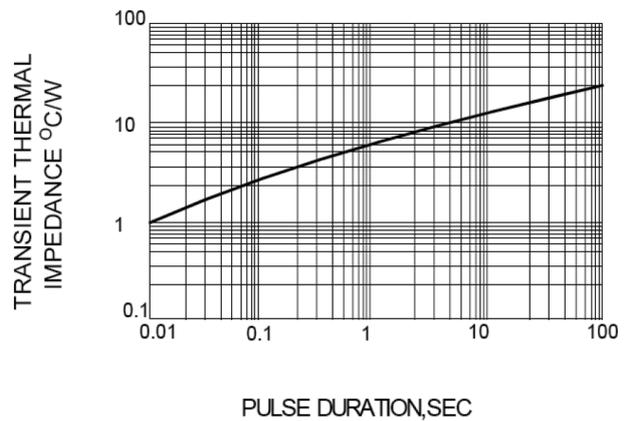
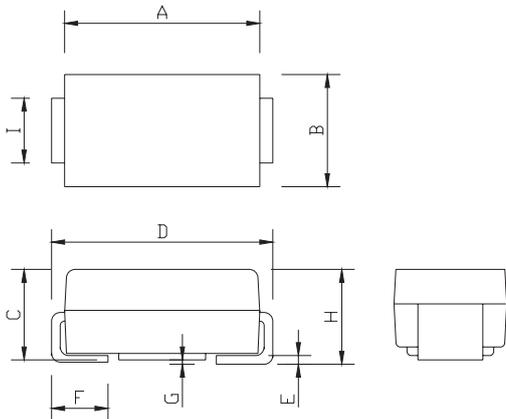


FIG.6– TYPICAL TRANSIENT THERMAL IMPEDANCE



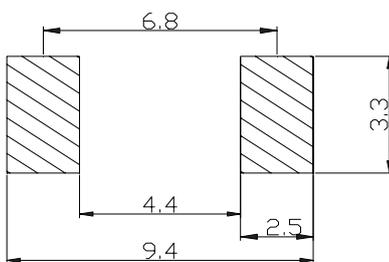
Package Outline Dimensions



DO-214AB(SMC)		
Dim.	Min.	Max.
A	6.7	7.1
B	5.7	6.1
C	2.1	2.4
D	7.55	8.05
E	0.25 Typ.	
F	1	1.6
G	0.2 Max.	
H	2.15	2.45
I	2.85	3.15

Dimensions : Millimetres

Soldering Footprint



Dimensions : Millimetres

Package Information

Device	Package	Shipping
B340-13-F	DO-214AB(SMC)	3,000 / Tape & Reel

Part Number Table

Description	Part Number
Schottky Barrier Rectifier	B340-13-F

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