

### 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 SMB, molded plastic over passivated chip
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Colour band denotes cathode end
- Weight: 0.003oz, 0.093g

# **Maximum Ratings and Thermal Characteristics**

Ratings at 25°C ambient temperature unless otherwise specified

Characteristic	Symbol	B330B-13-F	B340B-13-F	B360B-13-F	Units
Maximum repetitive peak reverse voltage	Vrrm	30	40	60	V
Maximum RMS voltage	Vrws	21	28	42	V
Maximum DC blocking voltage	V dc	30	40	50	V
Maximum average forward rectified current at TL=See Fig. 2 (Note 2)	IF(AV)	3		А	
Peak forward surge current 8.3ms single half-sine-wave	Ігѕм		50		А
Maximum instantaneous forward voltage at 3A (Note 1)	VF	0	.5	0.7	V
Maximum DC reverse current at $T_A = 25^{\circ}C$ at rated DC blocking voltage at $T_A = 100^{\circ}C$ (Note 1)	lr	0.5 20		mA	
Typical thermal resistance (Note 2)	Reja Rejl		50 20		°C/W
Operating junction and storage temperature range	Tj, Tstg		-55 to +125		°C

#### Notes:

(1) Pulse test:  $300\mu S$  pulse width, 1% duty cycle.

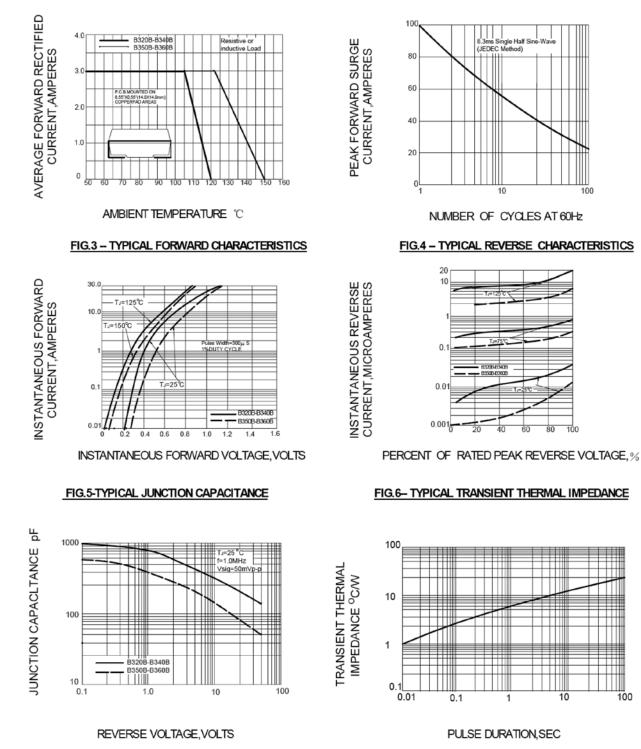
(2) PCB mounted with 0.55" × 0.55" (14 × 14mm<sup>2</sup>) copper pad areas.

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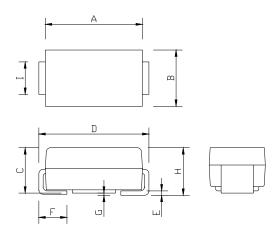
#### FIG.2- PEAK FORWARD SURGE CURRENT



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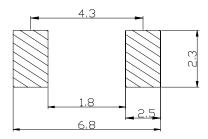
## Package Outline Dimensions



SMB				
Dim.	Min.	Max.		
А	4.3	4.7		
В	3.3	3.7		
С	2	2.3		
D	5.05	5.55		
E	0.2 Тур.			
F	0.95	1.55		
G	0.2 Max.			
н	2.1	2.5		
I	1.85	2.15		

**Dimensions : Millimetres** 

## **Soldering Footprint**



**Dimensions : Millimetres** 

### **Package Information**

[	Device	Package	Shipping
	B330B -13-F B340B -13-F B360B -13-F	DO-214AA(SMB)	3,000 / Tape & Reel

### Part Number Table

Description	Part Number	
Schottky Barrier Rectifier	B330B-13-F	
	B340B-13-F	
	B360B-13-F	

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