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## **FEATURES**

- Very Low Forward Voltage Drop
- Guard Ring Die Construction for Transient Protection
- Ideally Suited for Automated Assembly
- Low Power Loss, High Efficiency
- Surge Overload Rating to 70A Peak

### **Mechanical Data**

- Case: SMB
- Case Material: Molded Plastic;UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Lead Free Plating (Matte Tin Finish).
  Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band or Cathode Notch
- Weight: 0.064 grams (Approximate)

#### **Reference News**

PACKAGE OUTLINE	PIN CONFIGURATION	Marking Information		
		B340LB		
SMB(DO-214AA)				



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

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	40	V
Average Rectified Output Current (Note 5) TT = +90°C	lo	3.0	A
Non-Repetitive Peak Forward Surge Current, Single Sine-Wave Superimposed on Rated Load, 60Hz	IFSM	70	A

### **Thermal Characteristics**

Characteristic	Symbol	Value	Unit
Operating and Storage Temperature Range	Tj, Tstg	-55 to +150	°C

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

Characteristic	Symbol	Min	Тур	Мах	Unit	Conditions
Reverse Breakdown Voltage (Note 6)	V(BR)R	40			V	I <sub>R</sub> = 2.0mA
Forward Voltage Drop	VF		0.310	0.350 0.450	V	IF = 1.0A IF = 3.0A
				150	μA	V <sub>R</sub> = 15V
Leakage Current (Note 6)	I <sub>R</sub>	_	_	1.0 2.0	mA	V <sub>R</sub> = 20V V <sub>R</sub> = 40V
Total Capacitance	Ст		180		pF	f = 1MHz, VR = 4.0VDC
Thermal Resistance, Junction to Terminal	Rejt		35		°C/W	_

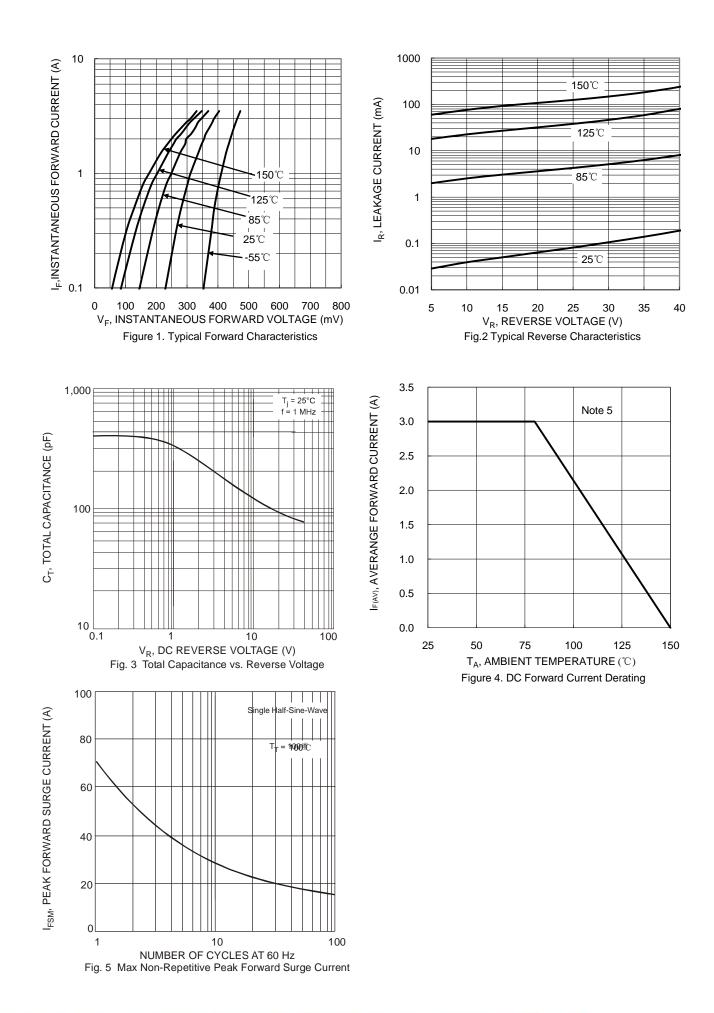
Notes:

5. Device mounted on FR-4 substrate, 0.4"\*0.5", 2oz, single-sided, PC boards with 0.2"\*0.25" copper pad.

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

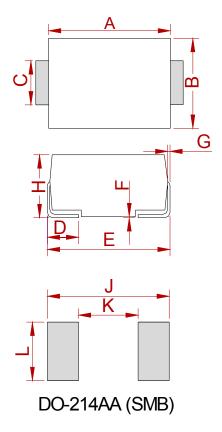


# B340LB-13-F(MS)





## PACKAGE MECHANICAL DATA



	Dimensions			
Ref.	Millimeters		Inches	
	Min.	Max.	Min.	Max.
Α	4.25	4.75	0.167	0.187
В	3.30	3.94	0.130	0.155
С	1.85	2.21	0.073	0.087
D	0.76	1.52	0.030	0.060
E	5.08	5.59	0.200	0.220
F	0.051	0.203	0.002	0.008
G	0.15	0.31	0.006	0.012
Н	2.11	2.44	0.083	0.096
J	6.80		0.270	
K		2.60		0.100
L	2.40		0.090	

## REELSPECIFICATION

P/N	PKG	QTY
B340LB-13-F(MS)	SMB	3000



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