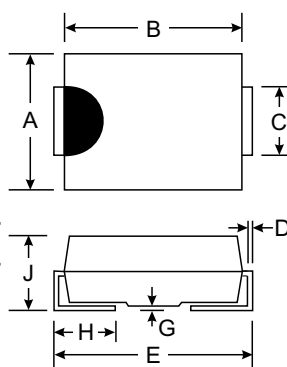


NEW PRODUCT

Features

- Very Low Forward Voltage Drop
- Guard Ring Die Construction for Transient Protection
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- Surge Overload Rating to 70A Peak
- Plastic Material - UL Flammability Classification 94V-0



Dim	SMA		SMB	
	Min	Max	Min	Max
A	2.29	2.92	3.30	3.94
B	4.00	4.60	4.06	4.57
C	1.27	1.63	1.96	2.21
D	0.15	0.31	0.15	0.31
E	4.80	5.59	5.00	5.59
G	0.10	0.20	0.10	0.20
H	0.76	1.52	0.76	1.52
J	2.01	2.62	2.00	2.62

All Dimensions in mm

Mechanical Data

- Case: Molded Plastic
- Terminals: Solder Plated Terminal - Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band or Cathode Notch
- Approx. Weight: SMA 0.064 grams
SMB 0.093 grams
- Marking: Type Number

"A" Suffix Designates SMA Package
"B" Suffix Designates SMB Package

Maximum Ratings @ T_A = 25°C unless otherwise specified

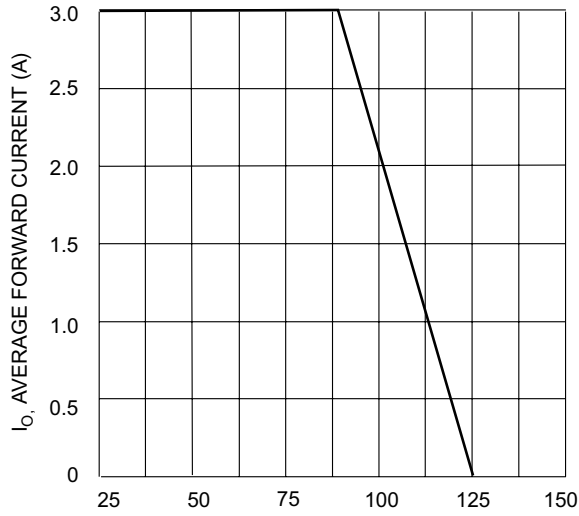
Single phase, half wave, 60Hz, resistive or inductive load unless otherwise noted.
For capacitive load, derate current by 20%.

Characteristic	Symbol	B340LA/B	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	40	V
RMS Reverse Voltage	V _{R(RMS)}	28	V
Average Rectified Output Current (Note 1) T _L = 90°C	I _O	3.0	A
Non-Repetitive Peak Forward Surge Current, single sine-wave superimposed on rated load, 60Hz	I _{FSM}	70	A
Operating and Storage Temperature Range	T _{J, TSTG}	-40 to +125	°C

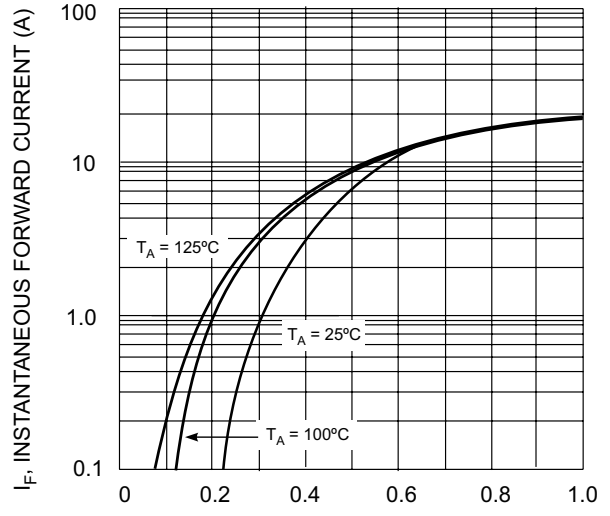
Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min	Typ	Max	Unit	Conditions
Reverse Breakdown Voltage (Note 2)	V _{(BR)R}	40	—	—	—	I _R = 2.0mA
Forward Voltage Drop (Note 2)	V _{FM}	—	0.310	0.350 0.450	V	I _F = 1.0A I _F = 3.0A
Leakage Current (Note 2)	I _{RM}	—	—	150	uA	V _R = 15V
				1.0 2.0	mA	V _R = 20V V _R = 40V
Typical Junction Capacitance	C _j	—	180	—	pF	f = 1MHz, V _R = 4.0VDC
Typical Thermal Resistance, Junction to Terminal	R _{θJT}	—	25	—	°C/W	Mounted on alumina substrate

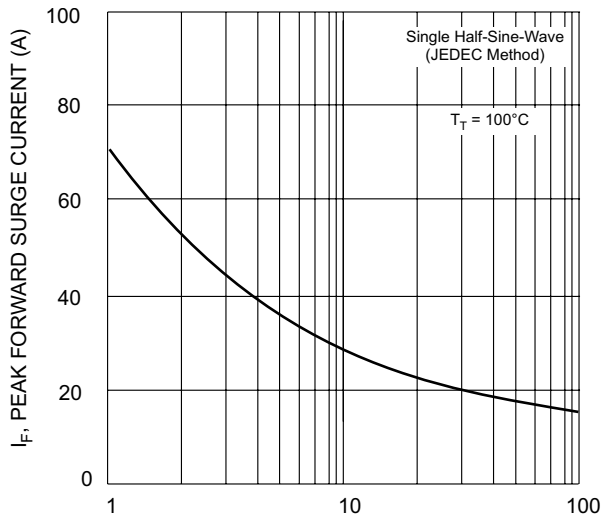
- Notes: 1. When mounted on alumina substrate, 180° half sine wave.
2. Short duration test pulse used to minimize self-heating effect.



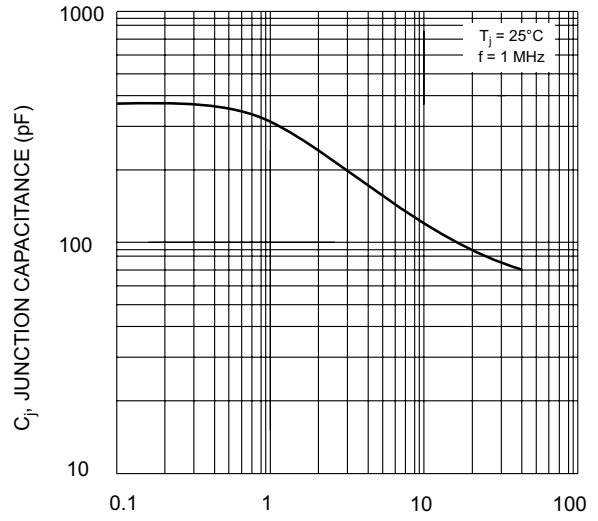
T_T, TERMINAL TEMPERATURE (°C)
Fig. 1 Forward Current Derating Curve



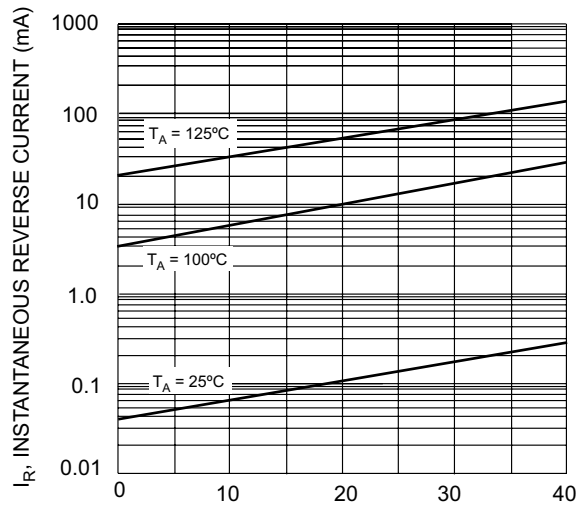
V_F, INSTANTANEOUS FORWARD VOLTAGE (V)
Fig. 2 Typical Forward Characteristics



NUMBER OF CYCLES AT 60 Hz
Fig. 3 Max Non-Repetitive Peak Fwd Surge Current



V_R, REVERSE VOLTAGE (V)
Fig. 4 Typical Junction Capacitance



V_R, INSTANTANEOUS REVERSE VOLTAGE (V)
Fig. 5 Typical Reverse Characteristics