

Green products

B340A SCHOTTKY RECTIFIER

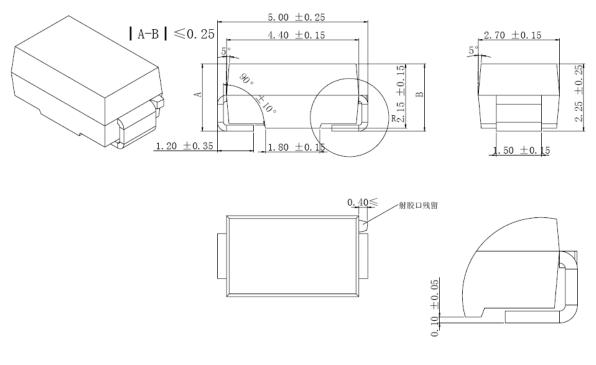
Applications:

- Disk Drives
- Switching power supply
- Converters
- Free-Wheeling diodes
- Reverse battery protection
- Battery Charging

Features:

- Small foot print, surface moutable
- · Low forward voltage drop
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- High frequency operation
- · Guard ring for enhanced ruggedness and long term reliability
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Mechanical Dimensions (In mm)



SMA

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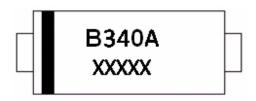
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Marking Diagram:



Where XXXXX is YYWWL

B = Device Type

3 = Forward Current (3A) 40 = Reverse Voltage (40V)

A = Package type

YY = Year WW = Week L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping	
B340A	SMA (Pb-Free)	5000pcs / reel	

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

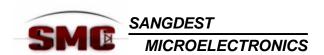
Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V_{RWM}	-	40	V
Max. Average Forward Current	I _{F(AV)}	50% duty cycle @T _C =75 °C, rectangular wave form	3	Α
Max. Peak One Cycle Non- Repetitive Surge Current (per leg)	I _{FSM}	8.3 ms, half Sine pulse	100	A

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop*	V_{F1}	@ 3 A, Pulse, T _J = 25 °C	0.5	V
Max. Reverse Current *	I _{R1}	$@V_R = \text{rated } V_R$ $T_C = 25 ^{\circ}C$	0.5	mA
	I _{R2}	$@V_R = \text{rated } V_R$ $T_C = 100 ^{\circ}C$	20	mA
Max. Junction Capacitance	Ст	$@V_R = 4.0V, T_C = 25 ^{\circ}C$ $f_{SIG} = 1MHz$	180	pF
Max. Voltage Rate of Change	dv/dt	-	10,000	V/μs

^{*} Pulse Width < 300µs, Duty Cycle <2%

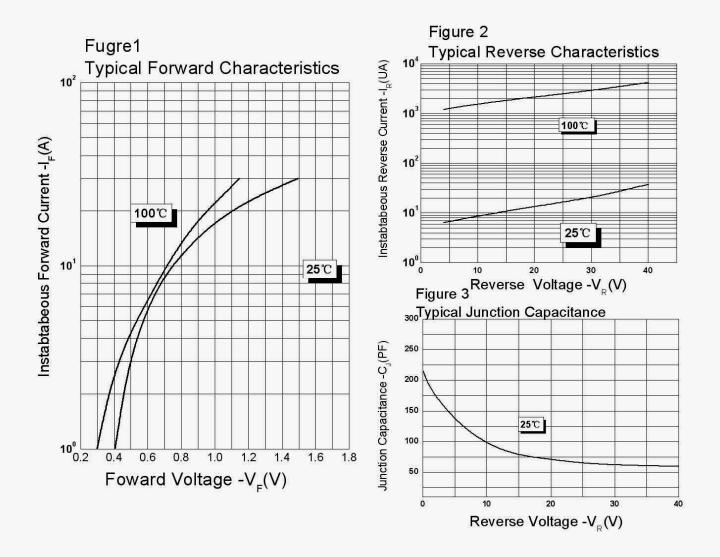
Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	T_J	-	-40 to +125	°C
Max. Storage Temperature	T_{stg}	-	-40 to +125	°C
Maximum Thermal Resistance Junction to Case (per leg)	$R_{ ext{ heta}JC}$	DC operation	80	°C/W
Case Style		SMA		





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B340A

Technical Data Data Sheet N0225, Rev. -

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