

Green products

B330A

Technical Data Data Sheet N0712, Rev. -

B330A SCHOTTKY RECTIFIER

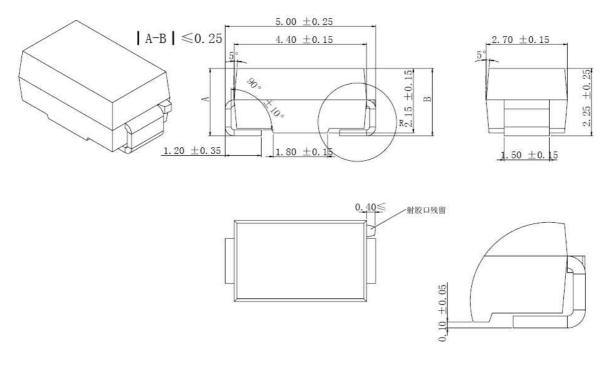
Applications:

- 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)





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Marking Diagram:

Where XXXXX is YYWWL

В	= Device Type
3	= Forward Current (3A)
30	= Reverse Voltage (30V)
A	= Package type
YY	= Year
WW	= Week
L	= Lot Number

Cautions: Molding resin Epoxy resin UL:94V-0

B330A XXXXX

Ordering Information:

Device	Package	Shipping
B330A	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}	-	30	V
Average Forward Current	I _{F(AV)}	50% duty cycle @T _c =75 °C, rectangular wave form	3	А
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
Forward Voltage Drop*	V _{F1}	@ 3 A, Pulse, T _J = 25 °C	0.50	V
Reverse Current *	I _{R1}	$@V_R = rated V_R$ T _C = 25 °C	0.5	mA
Junction Capacitance	C _T	@V _R = 4.0V, T _C = 25 °C f _{SIG} = 1MHz	250	pF
Voltage Rate of Change	dv/dt	-	10,000	V/µs

* Pulse Width < 300µs, Duty Cycle <2%

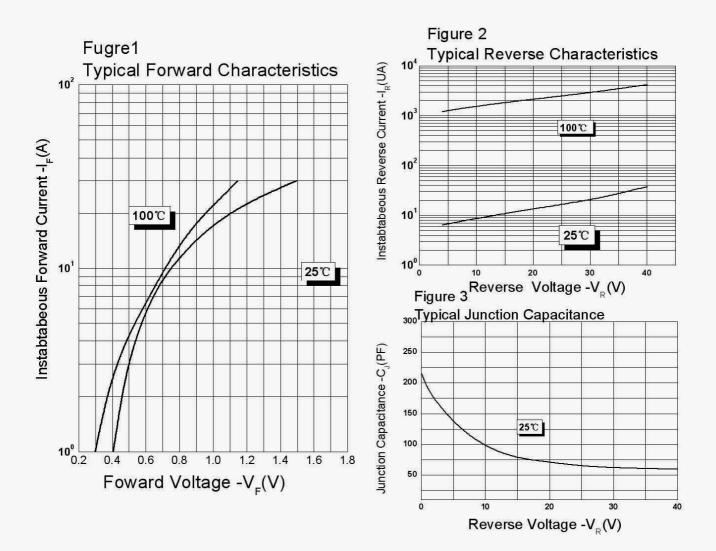
Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	T_{J}	-	-55 to +150	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C
Maximum Thermal Resistance Junction to Case (per leg)	$R_{ extsf{ heta}JC}$	DC operation	80	°C/W
Case Style		SMA		•

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