

SK320B SCHOTTKY RECTIFIER

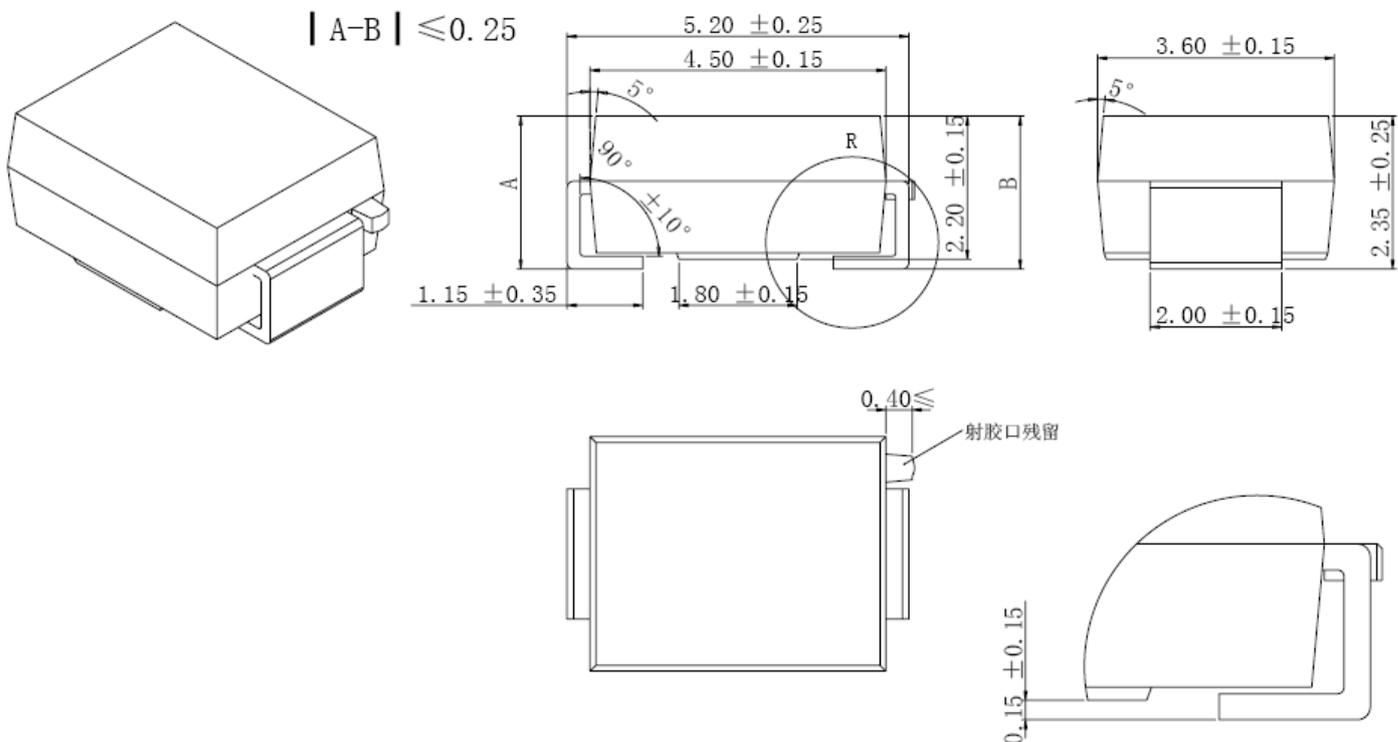
Applications:

- Switching power supply
- Converters
- Free-Wheeling diodes
- Reverse battery protection

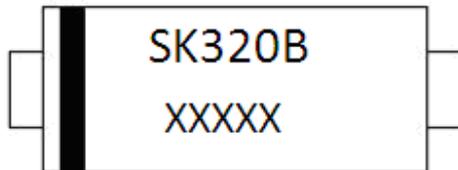
Features:

- Small foot print, surface mountable
- Very low forward Voltage Drop
- High frequency operation
- Guard ring for enhanced ruggedness and long term reliability
- Green Products in Compliance the ROHS Directive
- 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)



SMB

Marking Diagram:


Where XXXXX is YYWWL

SK320B	= Part Name
YY	= Year
WW	= Week
L	= Lot Number

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

Ordering Information

Device	Package	Shipping
SK320B	SMB (Pb-Free)	3000pcs / 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 Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	-	200	V
Average Forward Current	$I_{F(AV)}$	50% duty cycle @TC =100°C rectangular wave form(L=0.375")	3.0	A
Peak One Cycle Non-Repetitive Surge Current	I_{FSM}	8.3 ms, half Sine pulse	110	A



Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Forward Voltage Drop*	V _{F1}	@ 3A, Pulse, T _J = 25°C	0.90	V
	V _{F2}	@ 3A, Pulse, T _J = 125°C	0.75	V
Reverse Current*	I _{R1}	@V _R = rated VR T _J = 25°C	1.0	mA
	I _{R2}	@V _R = rated VR T _J = 125°C	6.0	mA
Typical Junction Capacitance	C _j	@V _R = 5.0 V, T _c =25°C f _{sig} = 1MHz	100	pF

* 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	R _{θJC}	DC operation	8	°C/W
Approximate Weight	wt	-	0.68	g
Case Style	SMB			

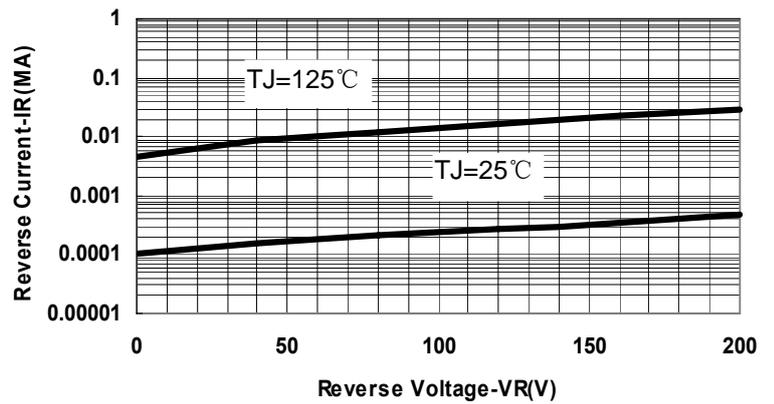
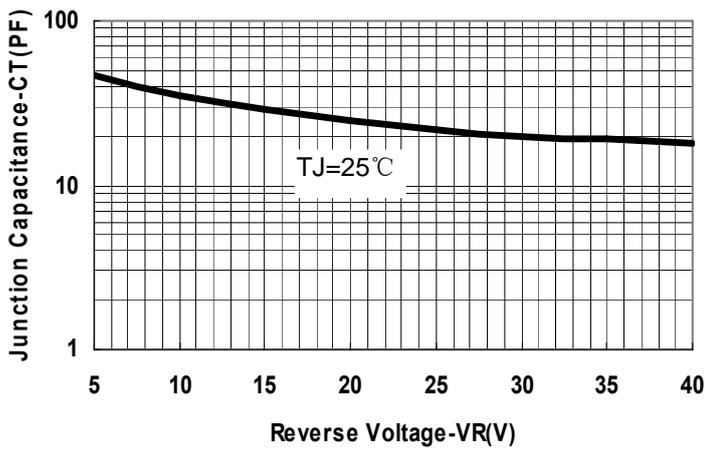


Fig.1-Typical Junction Capacitance Vs.Reverse Voltage

Fig.2-Typical Values Of Reverse Current Vs.Reverse Voltage

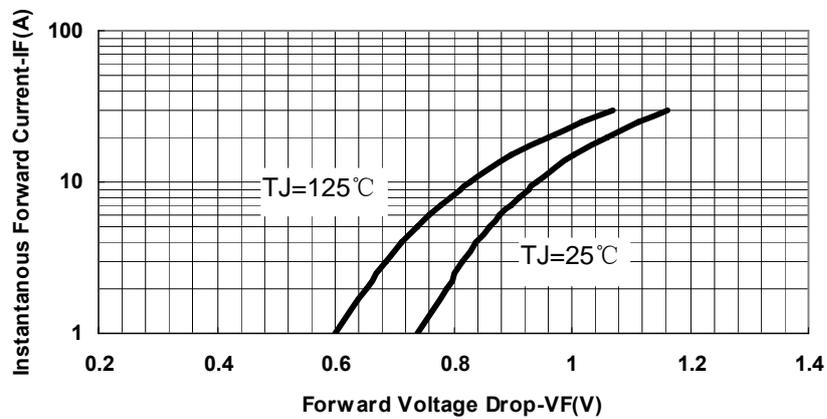


Fig.3-Typical Forward Voltage Drop Characteristics



SK320B

Technical Data
Data Sheet N1457. Rev. -

Green products

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