

Technical Data Data Sheet N0936, Rev. - **Green Products**

SK36B SCHOTTKY RECTIFIER

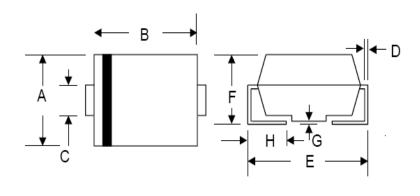
Applications:

- Switching power supply
- Converters
- Free-Wheeling diodes
- Reverse battery protection
- Disk drives
- Battery charging

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/DO-214AA					
Dim	Min	Max	Min	Max	
Α	3.30	3.94	0.130	0.155	
В	4.06	4.70	0.160	0.185	
С	1.91	2.11	0.075	0.083	
D	0.152	0.305	0.006	0.012	
E	5.08	5.59	0.2	0.220	
F	2.13	2.44	0.084	0.096	
G	0.051	0.203	0.002	0.008	
Н	0.76	1.27	0.029	0.05	
	in mm		In inch		

OPTION 1

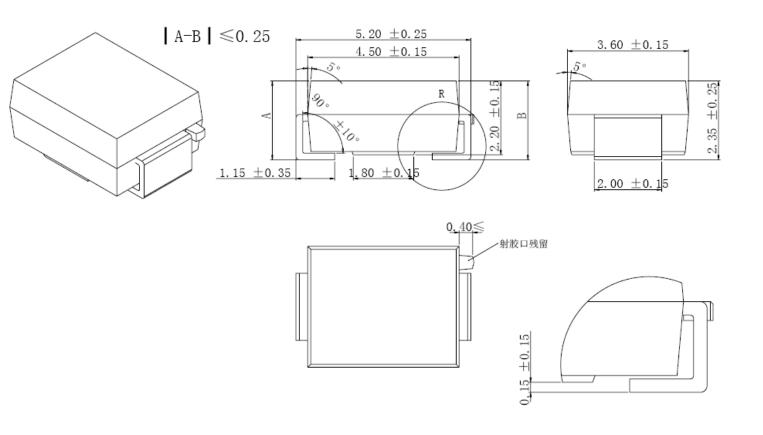
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OPTION 2(JK)

SMB

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Marking Diagram:



Where XXXXX is YYWWL

SK = Device Type

3 = Forward Current (3A) 6 = Reverse Voltage (60V)

B = Package type

YY = Year WW = Week L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
SK36B	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 Inverse Voltage	V_{RWM}	-	60	V
Max. Average Forward	I _{F(AV)}	50% duty cycle @TC =100 ℃ rectangular wave form(L=0.375")	3.0	А
Max. Peak One Cycle Non-Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine pulse	80	Α

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	V_{F1}	@ 3A, Pulse, T _J = 25℃	0.74	V
Max. Reverse Current	I _{R1}	@V _R = rated VR	0.5	mA
		T _J = 25℃		
	I _{R2}	@V _R = rated VR	20	mA
		T _J = 100°C		
Typical Junction Capacitance	Cj	@V _R = 4.0 V, Tc=25℃	250	pF
		f _{SIG} = 1MHz		

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

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	T_J	-	-55 to +150	$^{\circ}$ C
Max. Storage Temperature	T_{stg}	-	-55 to +150	$^{\circ}$ C
Maximum Thermal Resistance Junction to Case	$R_{ ext{ hetaJc}}$	DC operation	8	°C/W
Approximate Weight	wt	-	0.68	g
Case Style		SMB		

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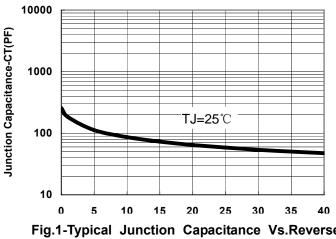


Fig.1-Typical Junction Capacitance Vs.Reverse Voltage

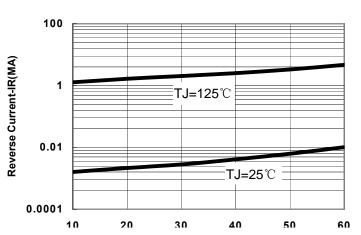


Fig.2-Typical Values Of Reverse Current VS.Revers Voltage

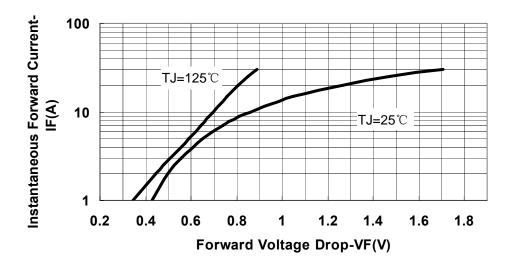


Fig.3-Typical Forward Voltage Drop Characteristics

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