

Green Products

SK310A SCHOTTKY RECTIFIER

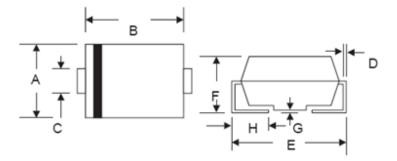
Applications:

- 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 / Inches)



SMA/DO-214AC					
Dim	Min	Max	Min	Max	
Α	2.50	2.90	0.098	0.114	
В	4.00	4.60	0.157	0.181	
С	1.40	1.60	0.055	0.063	
D	0.152	0.305	0.006	0.012	
E	4.80	5.28	0.189	0.208	
F	2.00	2.44	0.079	0.096	
G	0.051	0.203	0.002	0.008	
Н	0.76	1.52	0.030	0.060	
	In mm		In inch		

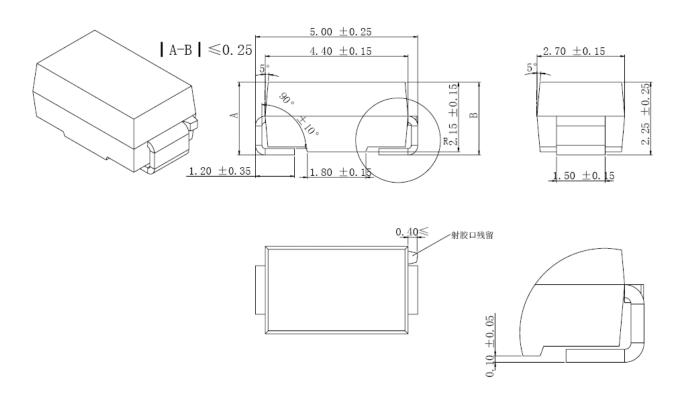
OPTION 1

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OPTION 2(JK) SMA



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Marking Diagram:

A310 XXXXXX Where XXXXX is YYWWL

A = Package type

3 = Forward Current (3A) 10 = Reverse Voltage (100V)

YY = Year WW = Week L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
SK310A	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}	-	100	V
Average Forward Current	I _{F(AV)}	50% duty cycle @T _L =100℃ rectangular wave form(L=0.375")	3.0	А
Peak One Cycle Non- Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine pulse	110	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Forward Voltage Drop	V_{F1}	@ 3A, Pulse, T _J = 25℃	0.85	V
	V _{F1}	@ 3A, Pulse, T _J = 125℃	0.80	V
Reverse Current	I _{R1}	$@V_R = \text{rated VR}$ $T_J = 25 ^{\circ}C$	0.6	mA
	I _{R2}	$@V_R = \text{rated VR}$ $T_J = 125 ^{\circ}C$	20.0	mA
Typical Junction Capacitance	Cj	@V _R = 4.0 V, Tc=25℃ f _{SIG} = 1MHz	250	PF

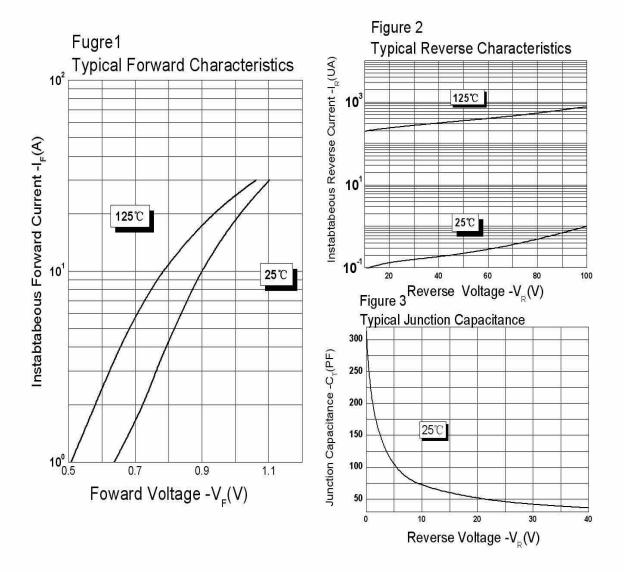
^{*} Pulse Width < 300µs, Duty Cycle <2%

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	T_J	-	-55 to +150	$^{\circ}$
Storage Temperature	T_{stg}	-	-55 to +150	$^{\circ}$
Maximum Thermal Resistance Junction to Lead	$R_{ heta JL}$	DC operation	20	°C/W
Maximum Thermal Resistance, Case to Heat Sink	$R_{ heta JA}$	DC operation	77	°C/W
Approximate Weight	wt	-	0.11	g
Case Style		SMA		



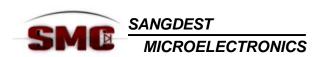
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