

Green products

SK310 SCHOTTKY RECTIFIER

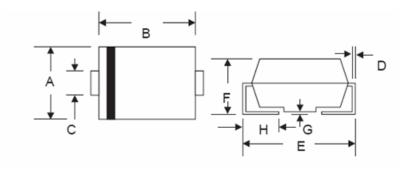
Applications:

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

Features:

- 150℃ TJ operation Center tap configuration
- 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)



SMC/DO-214AB				
Dim	Min	Max	Min	Max
Α	5.59	6.22	0.220	0.245
В	6.60	7.11	0.260	0.280
С	2.75	3.25	0.108	0.128
D	0.152	0.305	0.006	0.012
E	7.75	8.13	0.305	0.320
F	2.00	2.62	0.079	0.103
G	0.051	0.203	0.002	0.008
Н	0.76	1.27	0.030	0.05
	In mm		ln i	nch

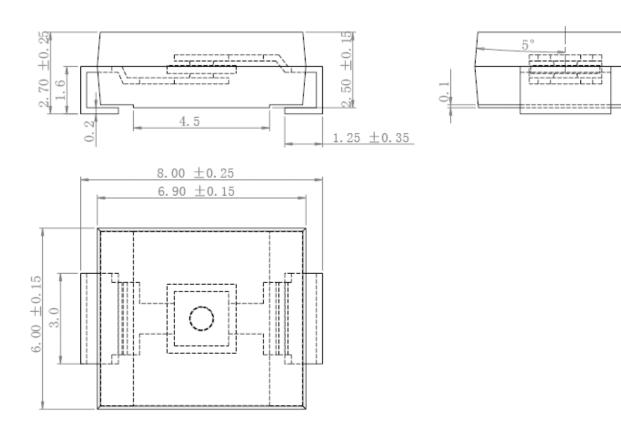
OPTION 1

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OPTION 2(JK) SMC





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Marking Diagram:



Where XXXXX is YYWWL

SK310 = Part Name
 YY = Year
 WW = Week
 L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information

Device	Package	Shipping
SK310	SMC (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}	-	100	V
Max. Average Forward	I _{F(AV)}	50% duty cycle @TC =100°C 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	110	Α

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	V_{F1}	@ 3A, Pulse, $T_J = 25^{\circ}C$	0.85	V
	V_{F1}	@ 3A, Pulse, T _J = 125℃	0.80	V
Max. 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

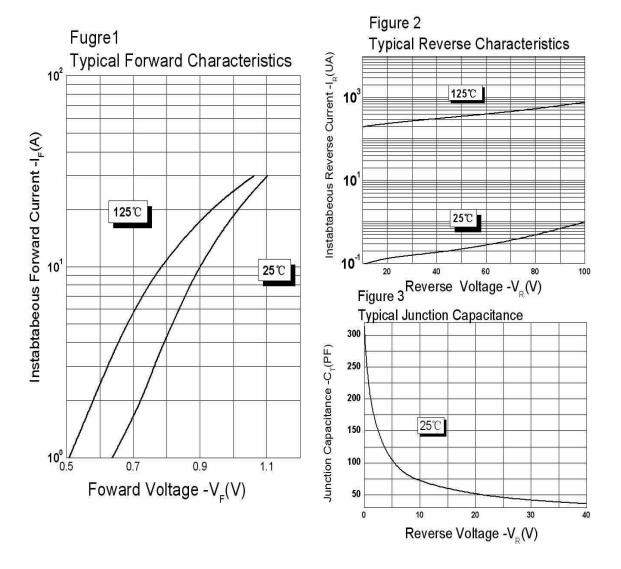
^{*} Pulse Width < 300µs, Duty Cycle <2%

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	T_J	-	-55 to +150	\mathbb{C}
Max. Storage Temperature	T_{stg}	-	-55 to +150	$^{\circ}$
Maximum Thermal Resistance Junction to Lead	$R_{ hetaJL}$	DC operation	20	°C/W
Maximum Thermal Resistance, Case to Heat Sink	$R_{ hetaJA}$	DC operation	77	°C/W
Approximate Weight	wt	-	0.65	g
Case Style	SMC			



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MICROELECTRONICS SK310

Technical Data
Data Sheet N0944. Rev. -

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