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SK310 SCHOTTKY RECTIFIER

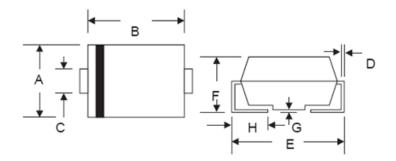
Applications:

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

Features:

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- High Current Capability
- Low Power Loss, High Efficiency
- High Surge Current Capability
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications
- 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

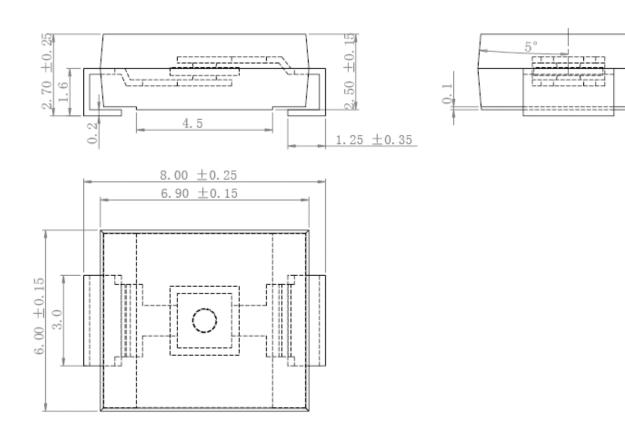
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OPTION 2(JK) SMC





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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
Average Forward Current	I _{F(AV)}	50% duty cycle @T _L =100°C 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, $T_J = 25^{\circ}C$	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	$@V_R = 4.0 \text{ V}, \text{Tc=}25^{\circ}\text{C}$ $f_{\text{SIG}} = 1\text{MHz}$	250	pF

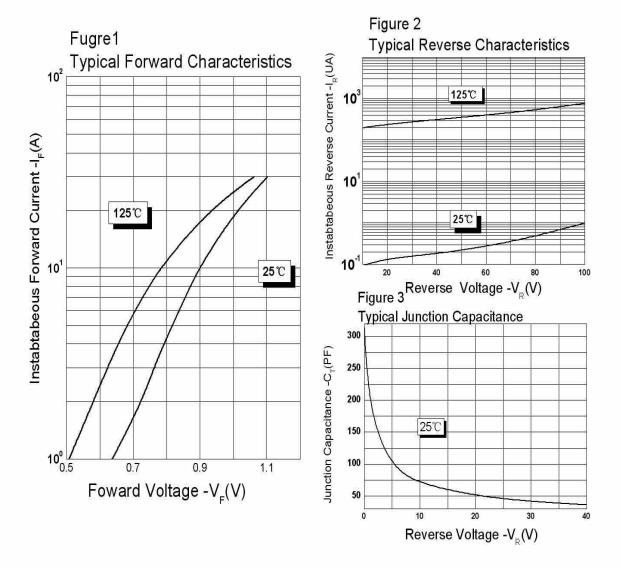
^{*} Pulse Width < 300 μ s, Duty Cycle <2%

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	$R_{ hetaJA}$	DC operation	77	°C/W
Approximate Weight	wt	-	0.65	g
Case Style		SMC		



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MICROELECTRONICS SK310

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Technical Data Data Sheet N0944. Rev. -

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