



SK310 SCHOTTKY RECTIFIER

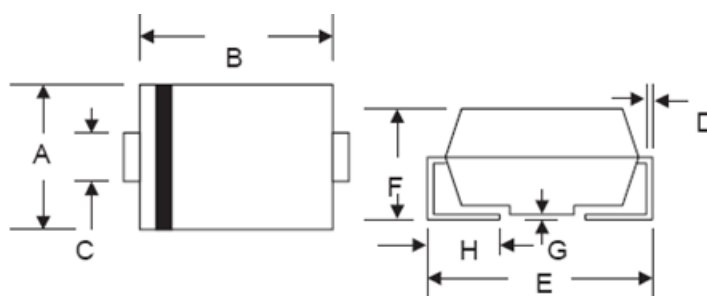
Applications:

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

Features:

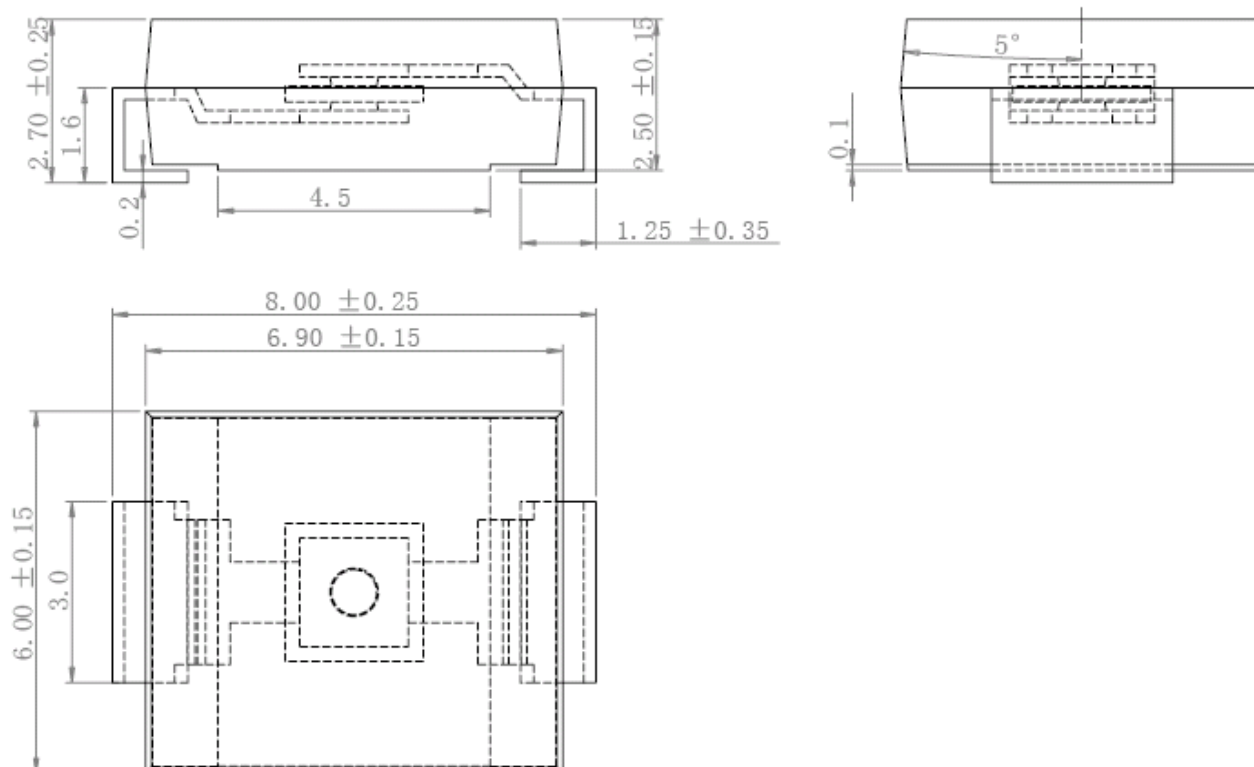
- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- High Current Capability
- Low Power Loss, High Efficiency
- High Surge Current Capability
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications
- This is a Pb – Free Device
- 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
A	5.59	6.22	0.220	0.245
B	6.60	7.11	0.260	0.280
C	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
H	0.76	1.27	0.030	0.05
		In mm	In inch	

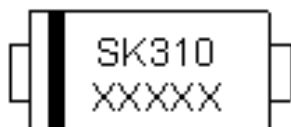
OPTION 1



OPTION 2(JK)

SMC

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 @ $T_L = 100^\circ\text{C}$ 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



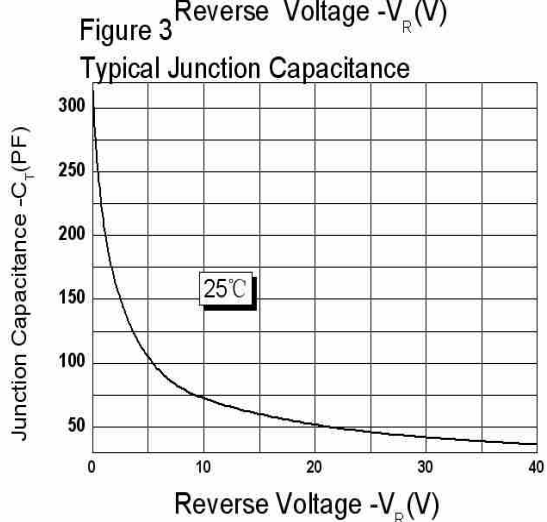
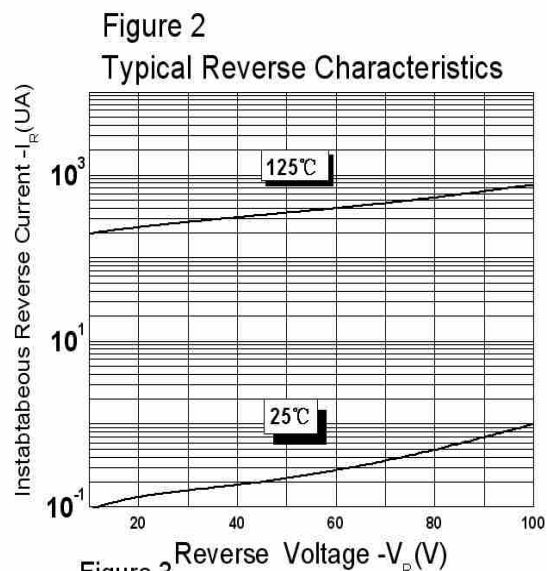
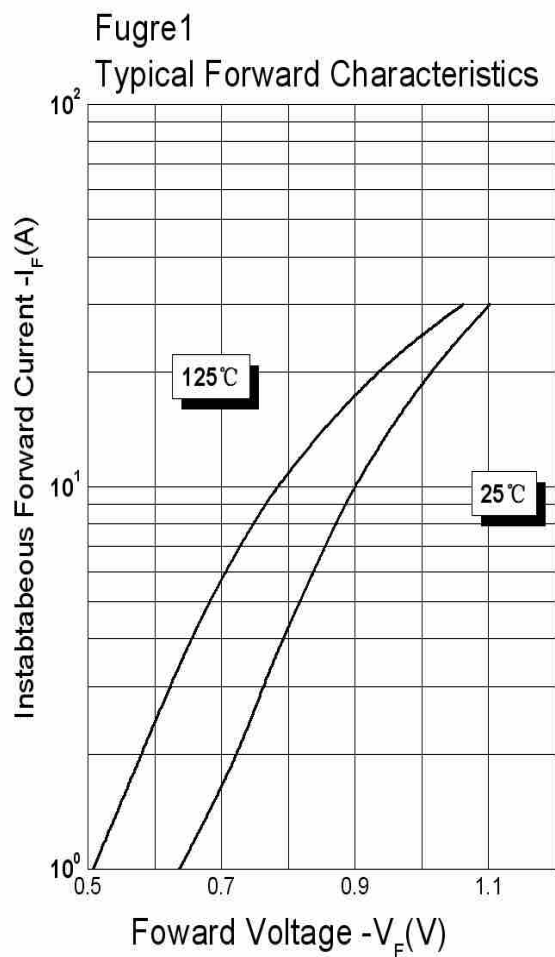
Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Forward Voltage Drop	V _{F1}	@ 3A, Pulse, T _J = 25°C	0.85	V
	V _{F1}	@ 3A, Pulse, T _J = 125°C	0.80	V
Reverse Current	I _{R1}	@V _R = rated VR T _J = 25°C	0.6	mA
	I _{R2}	@V _R = rated VR T _J = 125°C	20.0	mA
Typical Junction Capacitance	C _j	@V _R = 4.0 V, T _c =25°C 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	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C
Maximum Thermal Resistance Junction to Lead	R _{θJL}	DC operation	20	°C/W
Maximum Thermal Resistance, Case to Heat Sink	R _{θJA}	DC operation	77	°C/W
Approximate Weight	wt	-	0.65	g
Case Style	SMC			





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