

Green Products

SK210A SCHOTTKY RECTIFIER

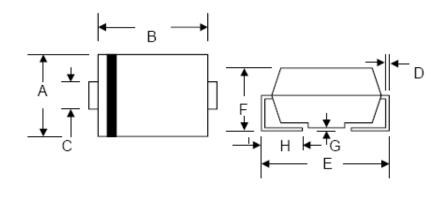
Applications:

- 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

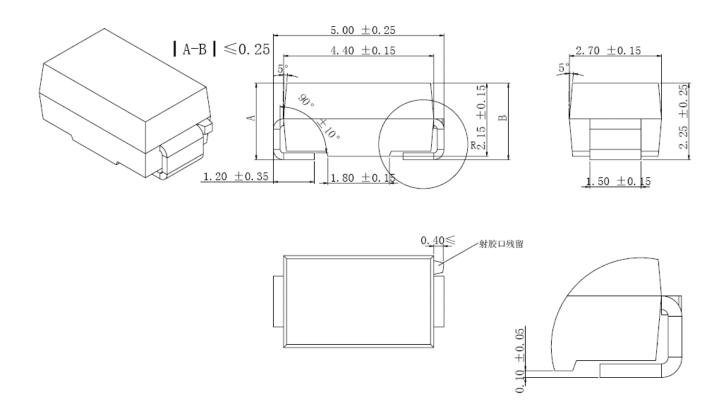


SMA/DO-214AC					
Dim	Min	Max	Min	Max	
Α	2.50	2.90	0.098	0.114	
В	4.00	4.60	0.157	0.181	
С	1.40	1.60	0.055	0.063	
D	0.152	0.305	0.006	0.012	
Е	4.80	5.28	0.189	0.208	
F	2.00	2.44	0.079	0.096	
G	0.051	0.203	0.002	0.008	
Н	0.76	1.52	0.030	0.060	
	In mm		In inch		

OPTION 1



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OPTION 2(JK)

SMA

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Marking Diagram:



Where XXXXX is YYWWL

A = Package type 2 = Forward Current (2A) 10 = Reverse Voltage (100V)

YY = Year WW = Week L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
SK210A	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 Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$egin{array}{c} V_{RRM} \ V_{RWM} \ V_{R} \end{array}$	-	100	V
Average Forward Current	I _{F(AV)}	50% duty cycle @T _L =100°C rectangular wave form(L=0.375")	2.0	А
Peak One Cycle Non-Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine pulse	50	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Forward Voltage Drop*	V_{F1}	@ 2A, Pulse, T _J = 25℃	0.85	V
Doverse Current*	I _{R1}	@V _R = rated VR T _J = 25°C	0.5	mA
Reverse Current*	I _{R2}	$@V_R = \text{rated VR}$ T _J = 100 °C	20.0	mA
Typical Junction Capacitance	Cj	$@V_R = 5.0 \text{ V}, \text{Tc}=25 ^{\circ}\text{Cf}_{SIG} = 1\text{MHz}$	240	PF

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

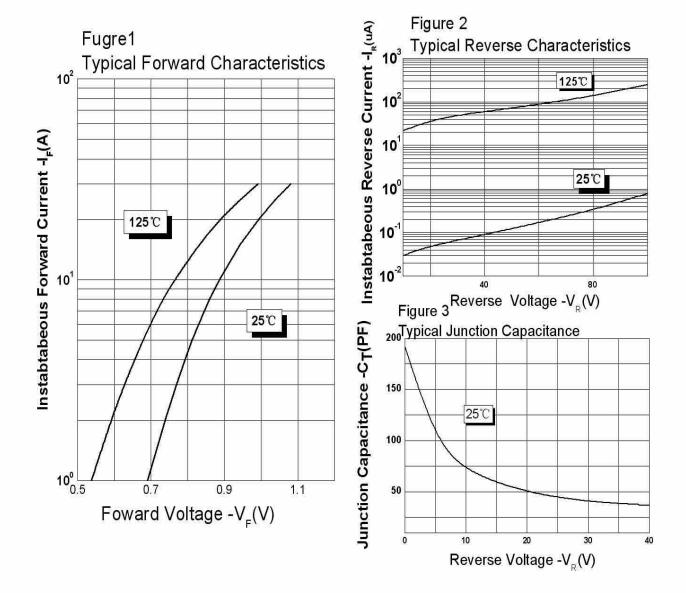
Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	T_J	-	-55 to +150	$^{\circ}\mathbb{C}$
Storage Temperature	T _{stg}	-	-55 to +150	$^{\circ}\mathbb{C}$
Maximum Thermal Resistance Junction to Lead	$R_{ heta JL}$	DC operation	23	°C/W
Maximum Thermal Resistance, Case to Heat Sink	$R_{ heta JA}$	DC operation	77	°C/W
Case Style		SMA		

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