

Green products

Technical Data Data Sheet N0949. Rev. A

SK320A SCHOTTKY RECTIFIER

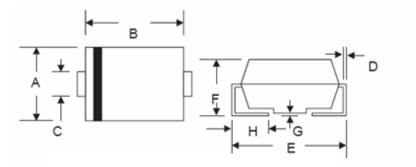
Applications:

- 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)



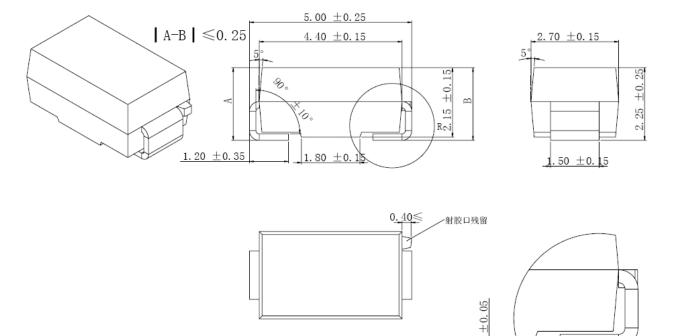
SMA/DO-214AC					
Dim	Min	Мах	Min	Мах	
Α	2.50	2.90	0.098	0.114	
в	4.00	4.60	0.157	0.181	
С	1.40	1.60	0.055	0.063	
D	0.152	0.305	0.006	0.012	
E	4.80	5.28	0.189	0.208	
F	2.00	2.44	0.079	0.096	
G	0.051	0.203	0.002	0.008	
н	0.76	1.52	0.030	0.060	
	In mm		In inch		

OPTION 1

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OPTION 2(JK)

0.10

SMA



Technical Data Data Sheet N0949. Rev. A

Green products

Marking Diagram:

Where XXXXX is YYWWL

SK320A	= Part Name		
YY	= Year		
WW	= Week		
L	= Lot Number		

Cautions: Molding resin Epoxy resin UL:94V-0

Ordering Information

Device	Package	Shipping
SK320A	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}	-	200	V
Max. Average Forward	I _{F(AV)}	50% duty cycle @TC =100℃ rectangular wave form(L=0.375")	3.0	A
Max. Peak One Cycle Non-Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine pulse	110	А

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Green products

Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	V_{F1}	@ 3A, Pulse, T _J = 25℃	0.90	V
	V _{F1}	@ 3A, Pulse, T _J = 125℃	0.75	V
Max. Reverse Current	I _{R1}	@V _R = rated VR T _J = 25℃	1.0	mA
	I _{R2}	@V _R = rated VR T _J = 125℃	6.0	mA
Typical Junction Capacitance	Cj	@V _R = 4.0 V, Tc=25℃ f _{SIG} = 1MHz	100	pF

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

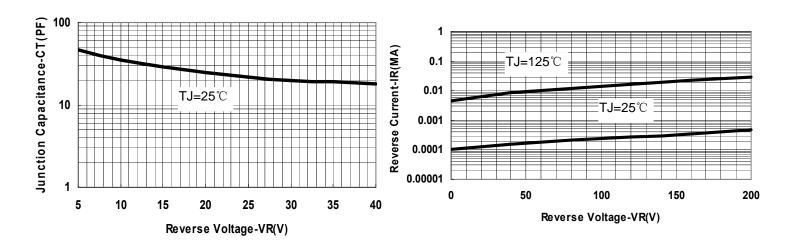
Thermal-Mechanical Specifications:

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



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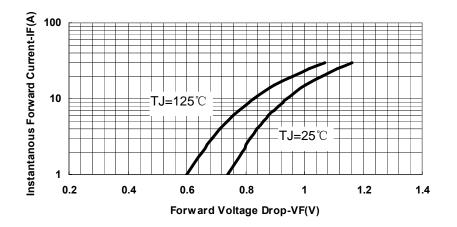


Fig.3-Typical Forward Voltage Drop Characteristics



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