

Green Products

SK36A SCHOTTKY RECTIFIER

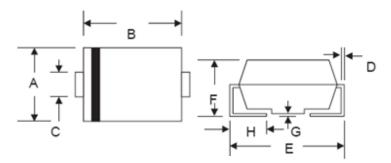
Applications:

- 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)



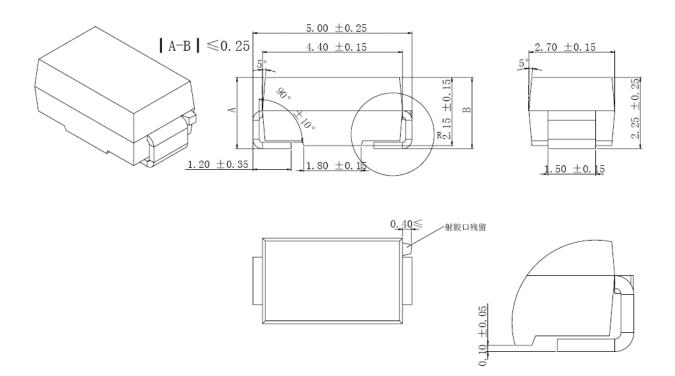
SMA/DO-214AC					
Dim	Min Max Min M		Max		
Α	2.50	2.90	0.098	0.114	
В	4.00	4.60	0.157	0.181	
С	1.40	1.60	0.055	0.063	
D	0.152	0.305	0.006	0.012	
Е	4.80	5.28	0.189	0.208	
F	2.00	2.44	0.079	0.096	
G	0.051	0.203	0.002	0.008	
Н	0.76	1.52	0.030	0.060	
	In mm		In inch		

OPTION 1

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OPTION 2(JK)

SMA

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Marking Diagram:

SK36A 20000X Where XXXXX is YYWWL

SK = Device Type

3 = Forward Current (3A) 6 = Reverse Voltage (60V)

A = Package type

YY = Year WW = Week L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
SK36A	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	$egin{array}{c} V_{RRM} \ V_{RWM} \ V_{R} \end{array}$	-	60	V
Average Forward Current	I _{F(AV)}	50% duty cycle @TC =100°C rectangular wave form	3.0	А
Peak One Cycle Non-Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine pulse	100	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Forward Voltage Drop*	V_{F1}	@ 3A, Pulse, T _J = 25℃	0.75	V
Reverse Current*	I _{R1}	$@V_R = \text{rated } V_R$ $T_J = 25^{\circ}C$	1.0	mA
	I _{R2}	$@V_R = \text{rated } V_R$ $T_J = 100^{\circ}C$	20	mA
Typical Junction Capacitance	Cj	$@V_R = 5.0 \text{ V}, \text{Tc=}25^{\circ}\text{C}$ $f_{SIG} = 1\text{MHz}$	250	pF

^{*} Pulse Width < 300µs, 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	${\mathbb C}$
Maximum Thermal Resistance Junction to Case	$R_{ heta Jc}$	DC operation	8	°C/W
Approximate Weight	wt	-	0.11	g
Case Style		SMA		

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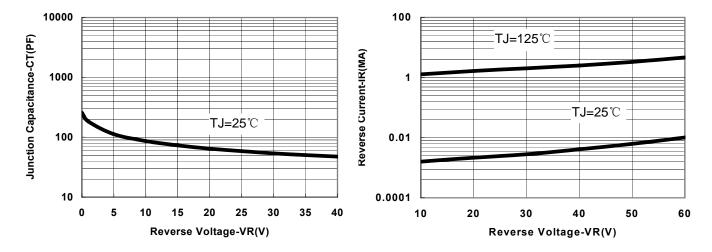


Fig.1-Typical Junction Capacitance Vs.Reverse Voltage

Fig.2-Typical Values Of Reverse Current VS.Reverse Voltage

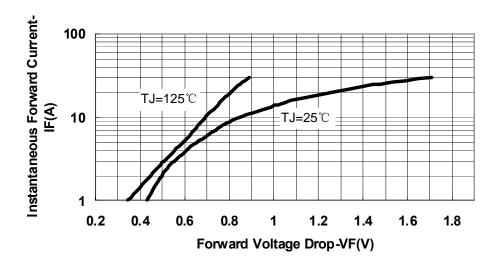


Fig.3-Typical Forward Voltage Drop Characteristics

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