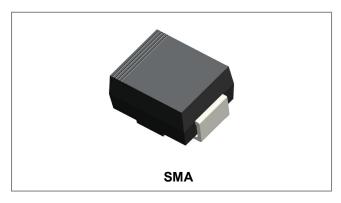






SK215A SCHOTTKY RECTIFIER



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

Circuit Diagram



Applications

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

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	-	150	V
Average Rectified Forward Current	lf (AV)	50% duty cycle @T _L =100°C, rectangular wave form	2	Α
Peak One Cycle Non-Repetitive Surge Current	I _{FSM}	8.3ms, Half Sine pulse, T _c = 25 °C	50	Α

Electrical Characteristics:

Characteristics	Symbol	Condition	Тур.	Max.	Units
Forward Voltage Drop*	V _{F1}	@ 2A, Pulse, T _J = 25 °C	0.75	0.95	V
	V _{F1}	@ 2A, Pulse, T _J = 125 °C	0.58	0.80	V
Reverse Current*	I _{R1}	$@V_R = \text{rated } V_{R,} T_J = 25 ^{\circ}\text{C}$	0.003	0.5	mA
	I _{R2}	@V _R = rated V _R , T _J = 100 °C	-	20.0	mA
Junction Capacitance	Ст	$@V_R = 5V, T_C = 25 ^{\circ}C, f_{SIG} = 1MHz$	70	240	pF
Series Inductance	Ls	Measured lead to lead 5 mm from package body	8.0	-	nH
Voltage Rate of Change	dv/dt	-	-	10,000	V/μs

^{*} Pulse width < 300 µs, duty cycle < 2%



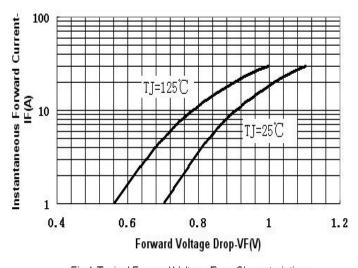




Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-55 to +150	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C
Typical Thermal Resistance Junction to Lead	R ₀ JL	DC operation	23	°C/W
Typical Thermal ResistanceJunction to Ambient	$R_{ heta JA}$	DC operation	88	°C/W
Approximate Weight	wt	-	0.06	g

Ratings and Characteristics Curves



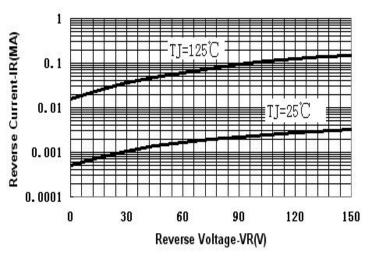


Fig.1-Typical Forward Voltage Drop Characteristics

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

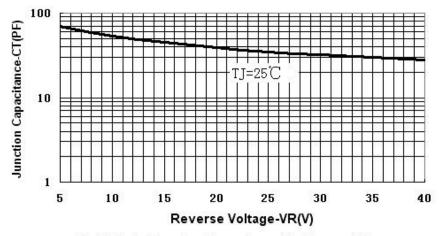


Fig.3-Typical Junction Capacitance Vs.Reverse Voltage

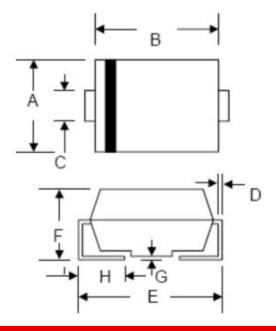
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Mechanical Dimensions SMA



SYMBOL	Millimeters		Inches		
	Min.	Max.	Min.	Max.	
А	2.40	2.84	0.094	0.112	
В	3.99	4.75	0.157	0.187	
С	1.05	1.70	0.041	0.067	
D	0.15	0.51	0.006	0.020	
Е	4.80	5.66	0.189	0.223	
F	1.90	2.95	0.075	0.116	
G	0.05	0.203	0.002	0.008	
Н	0.76	1.52	0.030	0.600	

Ordering Information

Device	Package	Shipping
SK215A	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.

Marking Diagram



Where XXXXX is YYWWL

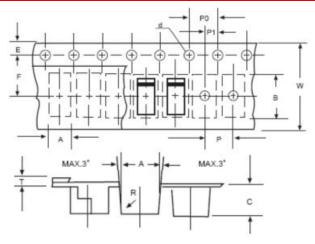
A = Package type 2 = Forward Current (2A) 15 = Reverse Voltage (150V)

YY = Year WW = Week L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Carrier Tape & Reel Specification SMA



SYMBOL	Millimeters		
	Min.	Max.	
Α	2.97	3.17	
В	5.70	5.90	
С	2.32	2.52	
d	1.40	1.60	
E	1.40	1.60	
F	5.60	5.70	
Р	3.90	4.10	
P0	3.90	4.10	
P1	1.90	2.10	
Т	0.25	0.35	
W	11.80	12.20	

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