

Technical Data Data Sheet N1112. Rev. -

SK22A SCHOTTKY RECTIFIER

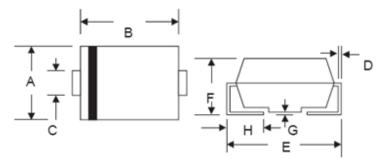
Applications:

- 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			

SMA

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Marking Diagram:

Where XXXXX is YYWWL

SK	= Device Type
2	= Forward Current (2A)
2	= Reverse Voltage (20V)
A	= Package type
ΥY	= Year
WW	= Week
L	= Lot Number

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

Ordering Information:

Device	Package	Shipping
SK22A	SMA	5000pcs / reel
SKZZA	(Pb-Free)	5000pcs / Teel

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}	-	20	V
Average Forward Current	I _{F(AV)}	50% duty cycle $@T_c = 105^{\circ}C$ rectangular wave form	2.0	A
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℃	0.55	V
Reverse Current	I _{R1}	$@V_R = rated VR$ T _J = 25°C	1.0	mA
	I _{R2}	@V _R = rated VR T _J = 100℃	20	mA
Typical Junction Capacitance	Cj	@V _R = 4.0 V, Tc=25℃ f _{SIG} = 1MHz	250	pF

* Pulse Width < 300µs, Duty Cycle <2%

Thermal-Mechanical Specifications:

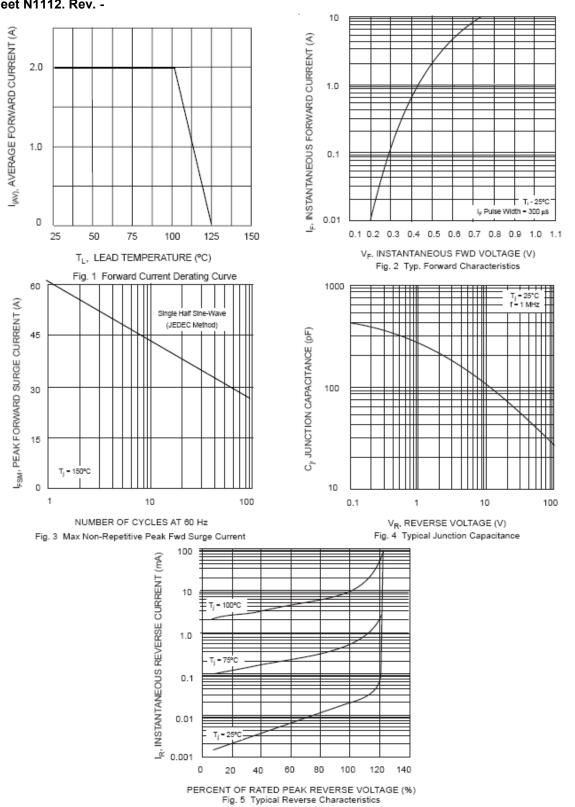
Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-55 to +125	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C
Maximum Thermal Resistance Junction to Case	R _{θJc}	DC operation	8	°C/W
Approximate Weight	wt	-	0.11	g
Case Style		SMA		



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