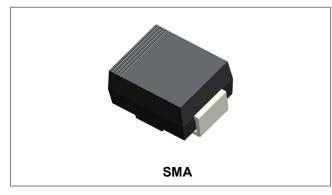


SK220LA

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SK220LA 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
- Terminals finish: Tin Lead-free plated
- This is a Pb Free device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Тур.

0 79

Max.

0.84

Units

v

Applications

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

Maximum Ratings(limiting values, Tc =25°C unless otherwise specified)

Characteristics	Symbol	Condition	Max.	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	-	200	V
Average Rectified Forward Current	IF (AV)	50% duty cycle @T∟=105°C, rectangular wave form	2	А
Peak One Cycle Non-Repetitive Surge Current	I _{FSM}	8.3ms, Half Sine pulse	50	А

Electrical Characteristics: Characteristics Symbol Condition Forward Voltage Drop* V_{F1} @ 2A, Pulse, T_J = 25 °C Performance Current* Image: Current* Image: Current*

			0.10	0.01	•
Reverse Current*	I_{R1} @V _R = rated V _R , T _J = 25 °C		0.00002	0.5	mA
	I _{R2}	$@V_R = rated V_{R, T_J} = 100 \ ^{\circ}C$	-	20.0	mA
Junction Capacitance	Ст	$@V_R = 5V, T_C = 25 \circ C, f_{SIG} = 1MHz$	52	170	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%

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Circuit Diagram





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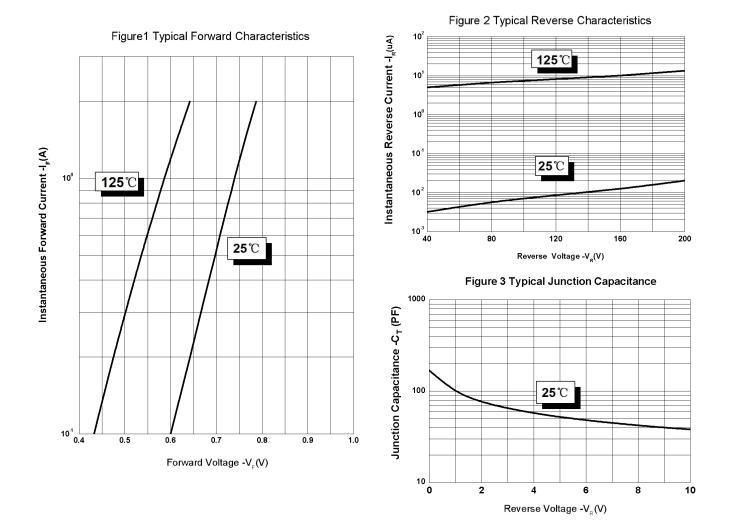
SK220LA

RoHS 🗭

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	$R_{ heta JL}$	DC operation	23	°C/W
Typical Thermal Resistance Junction to Ambient	$R_{ heta JA}$	DC operation	88	°C/W
Approximate Weight	wt	-	2	g

Ratings and Characteristics Curves



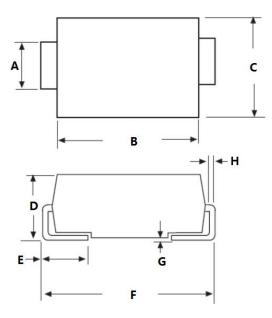


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Mechanical Dimensions SMA



SYMBOL	Millimeters		Inches	
STMBOL	Min.	Max.	Min.	Max.
A	1.25	1.65	0.049	0.065
В	3.95	4.6	0.156	0.181
С	2.25	2.95	0.089	0.116
D	1.95	2.9	0.077	0.114
E	0.75	1.6	0.03	0.063
F	4.8	5.6	0.189	0.22
G	0.05	0.2	0.002	0.008
Н	0.15	0.41	0.006	0.016

LA

YΥ

WW

L

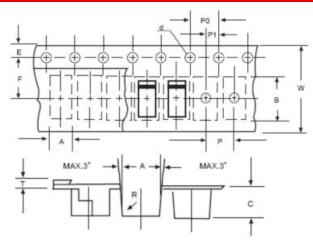
2 20

Ordering Information

Device	Package	Shipping
SK220LA	SMA	5000pcs / reel
SK220LATR	SMA	5000pcs / reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Carrier Tape Specification SMA



	LA220	н
-	XXXXX	μ
	2010/02/02/02/02	- 37

Marking Diagram

Where XXXXX is YYWWL

- = Package type
- = Forward Current (2A) = Reverse Voltage (200V)
- = Year
- = Week
- = Lot Number

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

SYMBOL	Millimeters		
	Min.	Max.	
A	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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RoH

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