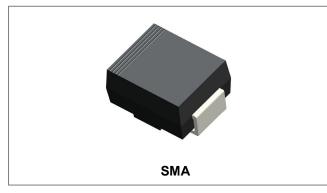


SK310A

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SK310A SCHOTTKY RECTIFIER



Anode

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: 100% Pure Tin
- This is a Pb Free device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

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	-	100	v
Average Rectified Forward Current	I _{F (AV)}	50% duty cycle @T∟=100°C, rectangular wave form	3	А
Peak One Cycle Non-Repetitive Surge Current	IFSM	8.3ms, Half Sine pulse, T_c = 25 °C	80	А

Electrical Characteristics:

Characteristics	Symbol	Condition	Тур.	Max.	Units
Forward Voltage Drop*	V _{F1}	@ 3A, Pulse, T _J = 25 °C	0.77	0.85	V
	V _{F1}	@ 3A, Pulse, T _J = 125 °C	0.62	0.80	V
Reverse Current*	I _{R1}	$@V_R = rated V_{R,} T_J = 25 \ ^{\circ}C$	0.001	0.6	mA
	I _{R2}	$@V_R = rated V_{R,} T_J = 125 \ ^{\circ}C$	1	20.0	mA
Junction Capacitance	Ст	$@V_{R} = 5V, T_{C} = 25 \ ^{\circ}C, f_{SIG} = 1MHz$	120	250	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

Cathode (



Technical Data Data Sheet N0945, Rev. A

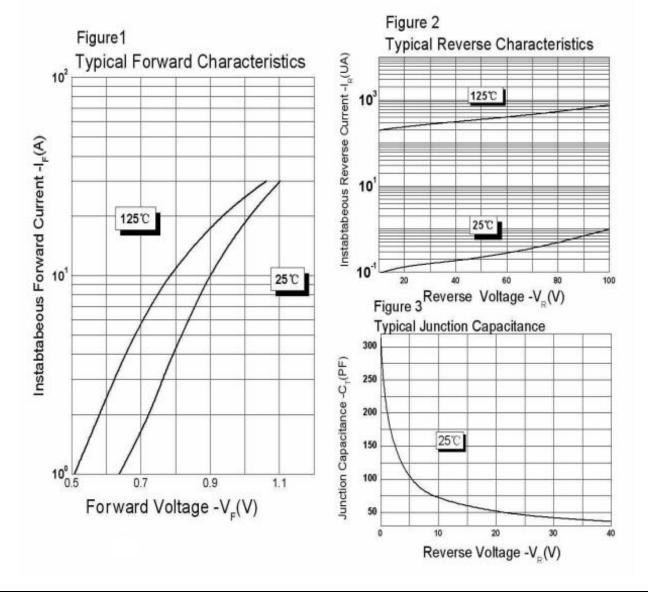
SK310A

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 _{θJL}	DC operation	20	°C/W
Typical Thermal Resistance Junction to Ambient	$R_{ heta JA}$	DC operation	77	°C/W
Approximate Weight	wt	-	0.06	g

Ratings and Characteristics Curves

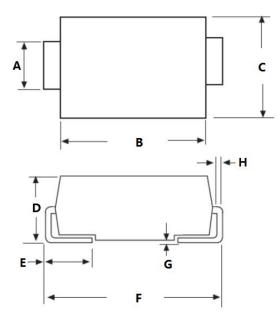


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Mechanical Dimensions SMA



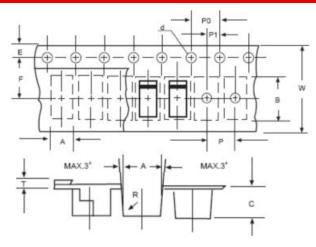
SYMBOI	Millimeters		Inches		
STMBOL	Min.	Max.	Min.	Max.	
A	1.25	1.65	0.049	0.065	
В	3.95	4.60	0.156	0.181	
С	2.25	2.95	0.089	0.116	
D	1.95	2.90	0.077	0.114	
E	0.75	1.60	0.030	0.063	
F	4.80	5.60	0.189	0.220	
G	0.05	0.20	0.002	0.008	
Н	0.15	0.41	0.006	0.016	

Ordering Information

Device	Package	Shipping
SK310A	SMA (Pb-Free)	5000pcs / reel
SK310ATR	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.

Carrier Tape & Reel Specification SMA



SYMBOL	Millim	neters
	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

А 3

10

YY

ww

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Marking Diagram

A310

XXXXX

Where XXXXX is YYWWL

- = Package type = Forward Current (3A)
- = Forward Current (3A) = Reverse Voltage (100V)
- = Year
- = Week
- = Lot Number

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







Technical Data Data Sheet N0945, Rev. A



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