

Features

- · High Surge Forward Current Capability
- For Surface Mount Applications
- Lead Free Finish/RoHS Compliant (Note 1)("P" Suffix Designates RoHS Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 2)
- · Moisture Sensitivity Level 1

3 Amp Schottky Rectifier 100 Volts

Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}		
Working Peak Reverse Voltage	V_{RWM}	100	V
DC Blocking Voltage	V _R		
RMS Reverse Voltage	V _{RMS}	70	V
Average Rectified Forward Current @ T _L =135°C	I _{F(AV)}	3	А
Non-Repetitive Peak Surge Current @8.3ms Half Sine Wave	I _{FSM}	100	А
Current Squared Time @ 1ms≤t≤8.3ms	l²t	41.5	A ² s

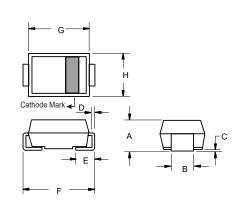
Internal Structure

Pin	Description	Simplified outline	Graphic symbol
1	cathode	MCC 1	
2	anode	SK310H	1 0

Note:

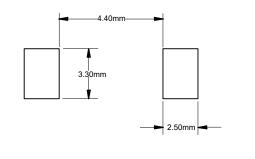
- 1. High temperature solder exemption applied, see EU directive annex 7a.
- 2. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

SMC (DO-214AB)



DIMENSIONS					
DIM	INC	INCHES		IM	NOTE
DIM	MIN MAX		MIN	MAX	NOTE
Α	0.079	0.103	2.00	2.62	
В	0.108	0.128	2.75	3.25	
С	0.002	0.008	0.051	0.203	
D	0.006	0.012	0.152	0.305	
E	0.030	0.060	0.76	1.52	
F	0.305	0.320	7.75	8.13	
G	0.260	0.280	6.60	7.11	
Н	0.220	0.245	5.59	6.22	

Suggested Solder Pad Layout





Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _J	Operating Junction Temperature Range		-55		175	°C
T _{stg}	Storage Temperature Range		-55		175	°C
Rth _(J-L)	Thermal Resistance from Junction to Lead	Note 1		17		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		60		°C/W

Note:

Electrical Characteristics @ 25°C Unless Otherwise Specified

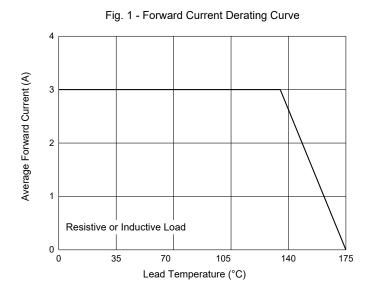
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =3A;T _J =25°C I _F =3A;T _J =125°C		0.74 0.60	0.78	V
Reverse Current	I _R	at Rated $V_R;T_J=25^{\circ}C$ at Rated $V_R;T_J=125^{\circ}C$			10 2	uA mA
Junction Capacitance	CJ	V _R =4V;f=1MHz;T _J =25°C		120		pF

^{1.} Mounted on P.C.B. with 16mm * 16mm copper pad areas.

100



Curve Characteristics



120

(V) 100

80

80

40

8.3 ms Single Half Sine-Wave

0

1

Number of Cycles at 60 Hz

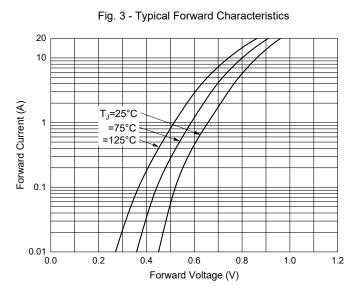




Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

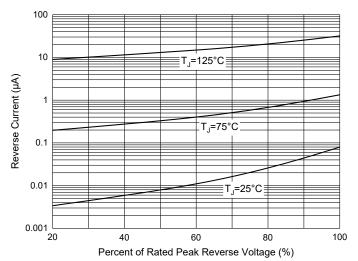
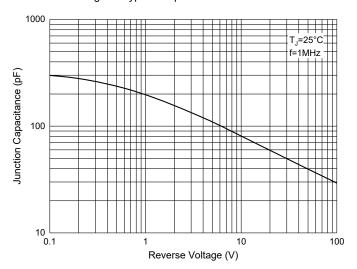


Fig. 5 - Typical Capacitance Characteristics





Ordering Information

Device	Packing	
SK310H-TP	Tape&Reel:3Kpcs/Reel	

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