

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)

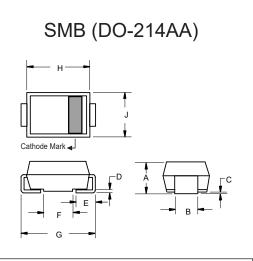
Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V _{RRM}		
Working Peak Reverse Voltage	V _{RWM}	100	V
DC Blocking Voltage	V _R		
RMS Reverse Voltage	V _{RMS}	70	V
Average Rectified Forward Current @ T _L =125°C	I _{F(AV)}	3	A
Non-Repetitive Peak Surge Current @8.3ms Half Sine Wave	I _{FSM}	100	A
Current Squared Time @ 1ms≤t≤8.3ms	l ² t	41.5	A ² s

Internal Structure

Pin	Description	Simplified outline	Graphic symbol
1	cathode		
2	anode	1 MCC SK310BH	1 oo 2

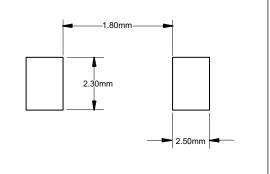
Note:

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



DIMENSIONS					
DIM	DIM INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
A	0.079	0.103	2.00	2.62	
В	0.075	0.087	1.91	2.21	
С	0.002	0.008	0.05	0.20	
D	0.006	0.012	0.15	0.31	
E	0.030	0.060	0.76	1.52	
F	0.065	0.091	1.65	2.32	
G	0.200	0.220	5.08	5.59	
Н	0.160	0.191	4.06	4.85	
J	0.130	0.155	3.30	3.94	

Suggested Solder Pad Layout





Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
TJ	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		20		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		65		°C/W

Note:

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

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	0.85	V
Reverse Current	I _R	at Rated V _R ;T _J =25°C at Rated V _R ;T _J =125°C			5 1	uA mA
Junction Capacitance	CJ	V _R =4V;f=1MHz;T _J =25°C		120		pF





Curve Characteristics

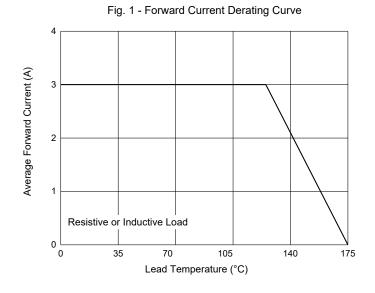


Fig. 3 - Typical Forward Characteristics

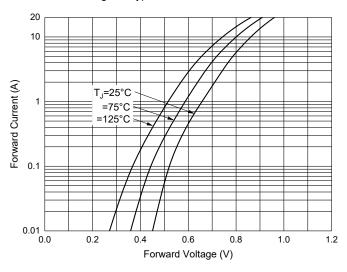
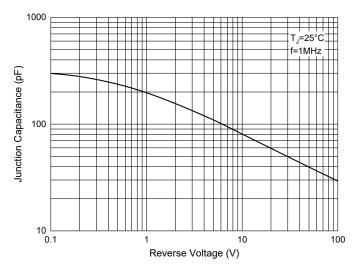


Fig. 5 - Typical Capacitance Characteristics



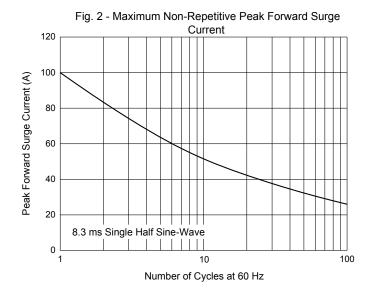
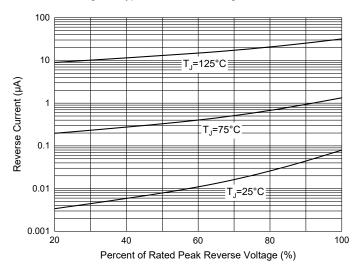


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing		
SK310BH-LTP	Tape&Reel:3Kpcs/Reel		

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