

Features

- Halogen Free. "Green" Device (Note 1)
- AEC-Q101 Qualified
- High Current Capability
- For Surface Mount Application
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (Note 2)("P" Suffix Designates RoHS Compliant. See Ordering Information)

5 Amp Surface Mount Schottky Rectifier 200 Volts

Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V _{RRM}		
Working Peak Reverse Voltage	V _{RWM}	200	V
DC Blocking Voltage	V _R		
RMS Reverse Voltage	V _{RMS}	140	V
Average Rectified Forward Current @ T _L =80°C	I _{F(AV)}	5	Α
Non-Repetitive Peak Surge Current @8.3ms Half Sine Wave	I _{FSM}	120	А
Current Squared Time @ 1ms≤t≤8.3ms	l²t	59.76	A ² s

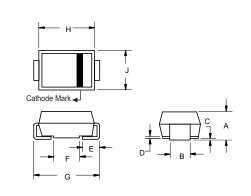
Internal Structure

Pin	Description	Simplified Outline	Graphic Symbol
1	Cathode	MCC SK5200A	
2	Anode	YYWW = Date Code	1 o

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

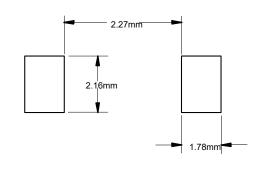
2. High temperature solder exemption applied, see EU directive annex 7a.

SMA (DO-214AC)



DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.075	0.096	1.90	2.44		
В	0.050	0.064	1.27	1.63		
С	0.002	0.008	0.051	0.203		
D		0.020	-	0.51		
Е	0.030	0.060	0.76	1.52		
F	0.065	0.091	1.65	2.32		
G	0.189	0.220	4.80	5.59		
Н	0.157	0.187	4.00	4.75		
J	0.090	0.115	2.25	2.92		

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		25		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		80		°C/W

Note:

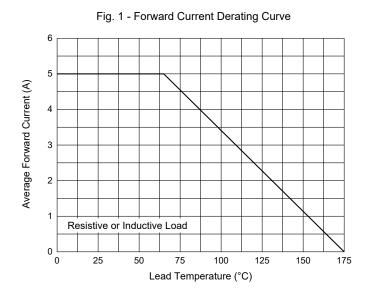
Electrical Characteristics @ 25°C Unless Otherwise Specified

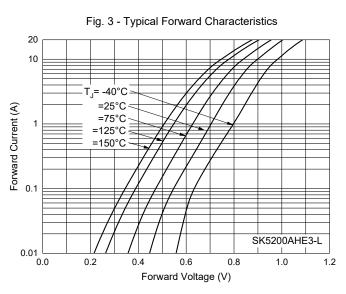
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =5A;T _J =25°C I _F =5A;T _J =125°C		0.82	0.90 0.80	V
Reverse Current	I _R	at Rated $V_R;T_J=25^{\circ}C$ at Rated $V_R;T_J=125^{\circ}C$			1 150	μА
Junction Capacitance	Сл	V _R =4V;f=1MHz;T _J =25°C		100		pF

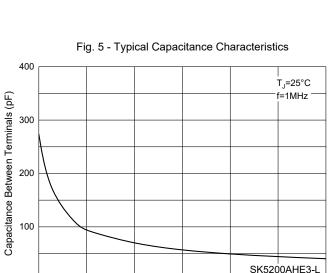
^{1.}Mounted on P.C.B. with 8 mm x 8 mm copper pad areas.



Curve Characteristics







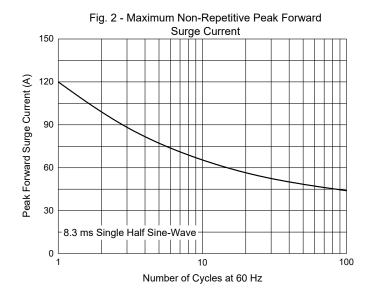
15

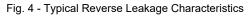
Reverse Voltage (V)

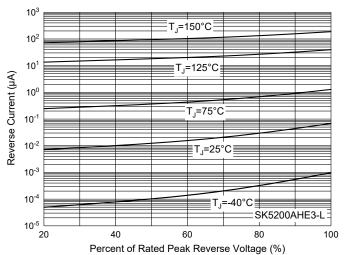
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Ordering Information

Device	Packing		
SK5200AHE3-LTP	Tape&Reel:5Kpcs/Reel		

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