

Features

- Halogen Free. "Green" Device (Note 1)
- 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)
- High Current Capability
- For Surface Mount Application

5 Amp Schottky Rectifier 150 to 200 Volts

Maximum Ratings @ 25°C (Unless Otherwise Specified)

		Value			
Parameter	Symbol	SK5150L	SK5200L	Unit	
Peak Repetitive Reverse Voltage	V _{RRM}				
Working Peak Reverse Voltage	V_{RWM}	150	200	V	
DC Blocking Voltage	V_R				
RMS Reverse Voltage	V _{RMS}	105	140	٧	
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}	150			
I²t Rating for Fusing @1ms≤t≤8.3ms	l ² t	93			

Marking code

Part Number	Marking Code	
SK5150L	SK5150	
SK5200L	SK5200	

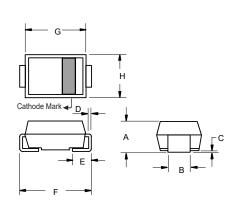
Internal Structure

Pin	Description	Simplified outline	Graphic symbol
1	Cathode	1 MCC 2	
2	Anode	XXXX = Marking code	1 0——— 0 2

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

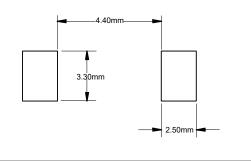
2. High temperature solder exemption applied, see EU directive annex 7a.

SMC (DO-214AB)



DIMENSIONS						
DIM INCHE		HES MM		NOTE		
DIIVI	MIN		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		
Е	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		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-L)	Thermal Resistance from Junction to Lead	Note 1		16		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		65		°C/W

Note:

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage						
SK5150L	V _F	I _F =5A;T _J =25°C I _F =5A;T _J =125°C			0.87 0.75	V
SK5200L		I _F =5A;T _J =25°C I _F =5A;T _J =125°C			0.90 0.75	V
Reverse Current	I _R	at Rated $V_R;T_J$ =25°C at Rated $V_R;T_J$ =125°C			0.01 1	mA
Junction Capacitance	CJ	V _R =4V;f=1MHz;T _J =25°C		95		pF

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



Curve Characteristics

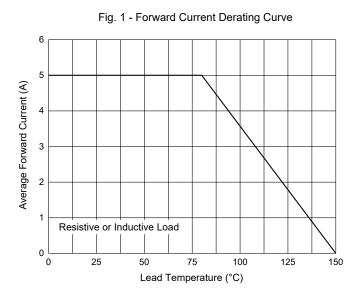


Fig. 3 - Typical Forward Characteristics

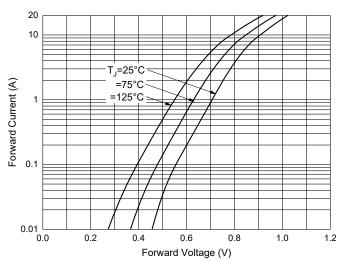


Fig. 5 - Typical Capacitance Characteristics

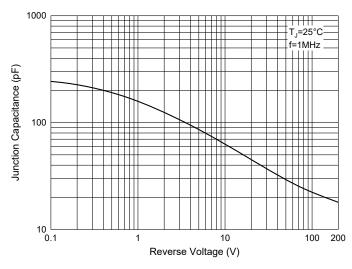
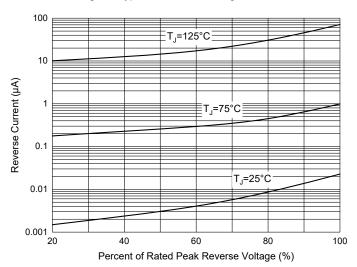


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing		
Part Number-TP	Tape&Reel:3Kpcs/Reel		

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