

Features

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

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 20°C/W Junction To Case
- Maximum Thermal Resistance: 10°C/W Junction to Lead
- Maximum Thermal Resistance: 55°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SK32	SK32	20V	14V	20V
SK33	SK33	30V	21V	30V
SK34	SK34	40V	28V	40V
SK35	SK35	50V	35V	50V
SK36	SK36	60V	42V	60V
SK38	SK38	80V	56V	80V
SK310	SK310	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

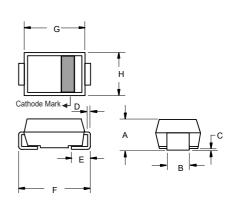
Average Forward Current	I _{F(AV)}	3.0A	T _L =100°C
Peak Forward Surge Current	I _{FSM}	100A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage SK32-34 SK35-36 SK38-310	V _F	0.50V 0.75V 0.85V	I _{FM} =3.0A; T _J =25°C*
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	0.1mA 10mA	T _J =25°C; T _J =100°C
Typical Junction Capacitance	CJ	250pF	Measured at 1.0MHz, V _R =4.0V

^{*}Pulse Test: Pulse Width 200 µsec, Duty Cycle 2%

- 1. High Temperature Solder Exemptions Applied, See EU Directive Annex 7a.
- 2. Halogen free "Green" products are defined as those which contain <900 ppm bromine,
- <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

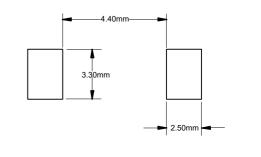
3 Amp Schottky Rectifier 20 to 100 Volts

SMC (DO-214AB)



	DIMENSIONS						
DIM	INCHES		MM		NOTE		
ווועו	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



100



Curve Characteristics

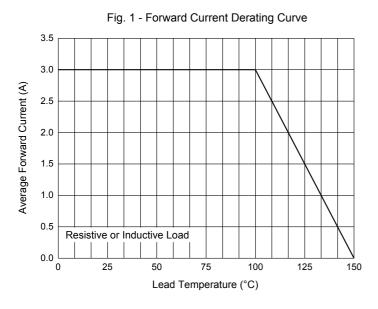


Fig. 3 - Typical Instantaneous Forward Characteristics

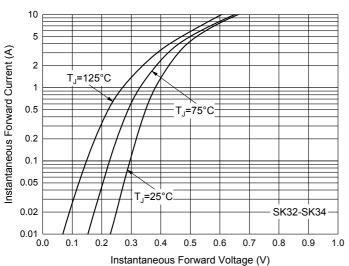


Fig. 5 - Typical Instantaneous Forward Characteristics

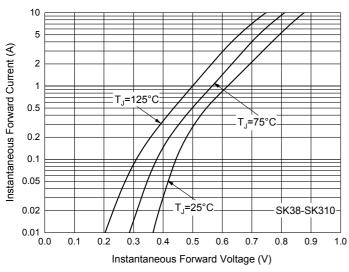


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current 120 100 Peak Forward Surge Current (A) 80 60 40 8.3 ms Single Half Sine-Wave 0 ^L

Fig. 4 - Typical Instantaneous Forward Characteristics

Number of Cycles at 60 Hz

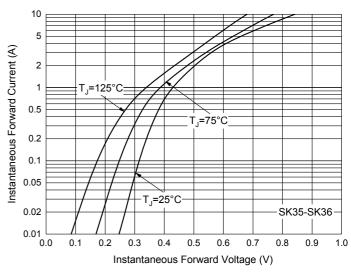
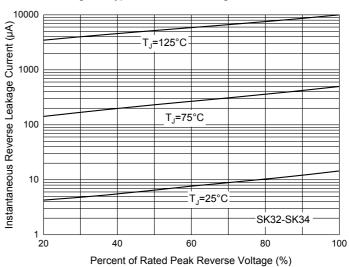


Fig. 6 - Typical Reverse Leakage Characteristics





Curve Characteristics

Fig. 7 - Typical Reverse Leakage Characteristics

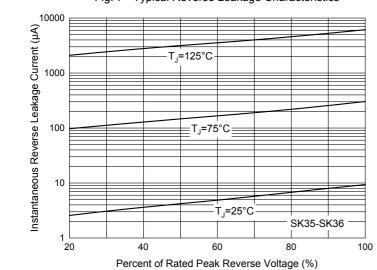
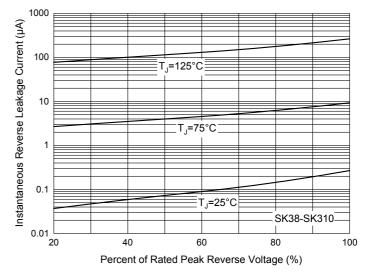


Fig. 8 - Typical Reverse Leakage Characteristics





Ordering Information

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

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