

Features

- High Surge Capability
- Ver Low Forward Voltage Drop
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Low Power Losses, High Efficiency
- Guardring For Over Voltage Protection
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- 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:23°C/W Junction to Lead
- Maximum Thermal Resistance:70°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SK42BL	SK42L	20V	14V	20V
SK43BL	SK43L	30V	21V	30V
SK44BL	SK44L	40V	28V	40V

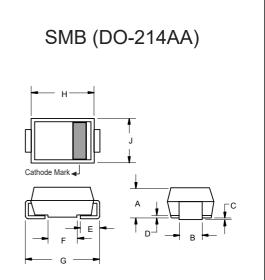
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	4.0A	T∟=90°C
Peak Forward Surge Current	I _{FSM}	100A	8.3ms,half sine
Maximum Instantaneous Forward Voltage	V _F	0.45V	I _{FM} =4.0A; T _J =25⁰C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	0.1mA 10mA	Tյ=25⁰C Tյ=100⁰C

*Pulse Test: Pulse Width 300 $\mu sec,$ Duty Cycle 1%

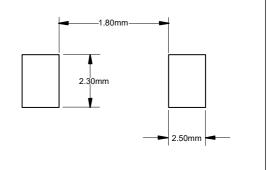
Note:1. High Temperature Solder Exemptions Applied, See EU Directive Annex 7a.





	DIMENSIONS					
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	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





Curve Characteristics

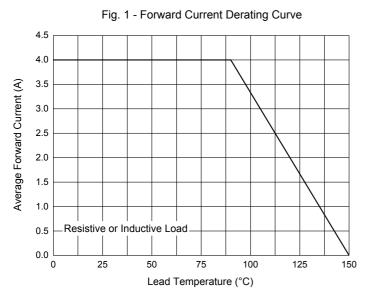
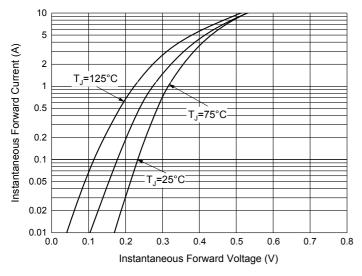
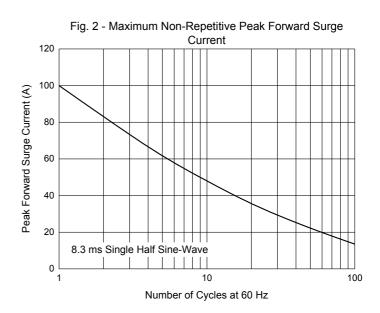
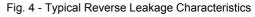
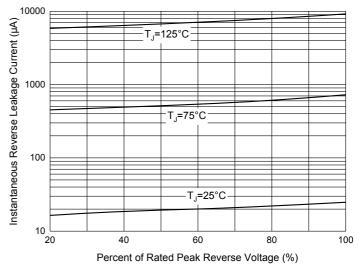


Fig. 3 - Typical Instantaneous Forward Characteristics











Ordering Information

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

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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