

Features

- High Surge Capability
- Ver Low Forward Voltage Drop
- Halogen Free. "Green" Device (Note 1)
- · Low Power Losses, High Efficiency
- Guardring For Over Voltage Protection
- Lead Free Finish/RoHS Compliant(Note 2) ("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 Numbe	Device r 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

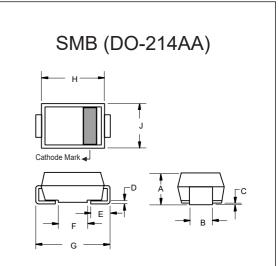
Average Forward Current	I _{F(AV)}	4.0A	T _L =90°C
Peak Forward Surge Current	I _{FSM}	100A	8.3ms,half sine
Maximum Instantaneous Forward Voltage	V _F	0.45V	I _{FM} =4.0A; T _J =25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	0.1mA 10mA	T _J =25°C T _J =100°C

^{*}Pulse Test: Pulse Width 300 μsec , Duty Cycle 1%

Note:

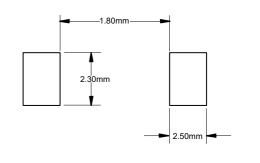
- 1. Halogen free "Green"products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 2. High Temperature Solder Exemptions Applied, See EU Directive Annex 7a.

4 Amp Low VF Schottky Rectifier 20 to 40 Volts



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	
Е	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

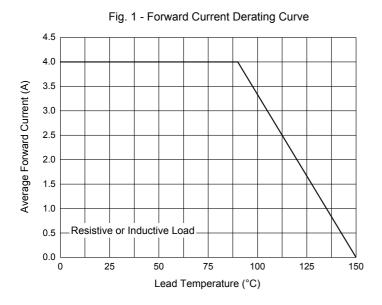


Fig. 3 - Typical Instantaneous Forward Characteristics

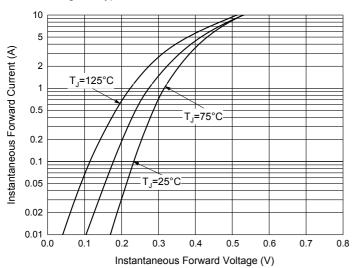


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge
Current

120

80

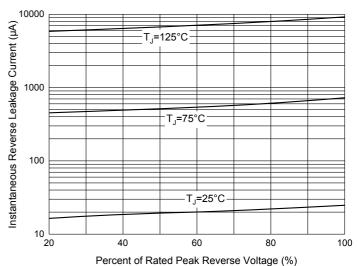
80

40

8.3 ms Single Half Sine-Wave
0
1
100

Number of Cycles at 60 Hz

Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

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

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