

SK52~SK56



Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load.

PARAMETER	SYMBOL	SK52	SK53	SK54	SK55	SK56	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	V
Maximum RMS Voltage	V _{rms}	14	21	28	35	42	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	v
Maximum Average Forward Rectified Current at T $_{L}$ =75°C	I _{F(AV)}	5					А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{fsm}	100					А
Maximum Forward Voltage at 5A (Note 1)	V _F	0.55			0.75		V
Maximum DC Reverse Current at Rated DC Blocking T _J =25°C Voltage T _J =100°C	I _R	0.2 20			0	.1 20	mA
Typical Thermal Resistance (Note 2)	R _{θJL} R _{θJA}	17 55					°C / W
Operating Junction Temperature Range	TJ	-55 to +125 -55 to +150			°C		
Storage Temperature Range	T _{stg}	-55 to +150					°C

NOTES:

2. Mounted on P.C. Board with $14 \mbox{mm}^2$ (.013mm thick) copper pad areas.

^{1.} Pulse Test with PW =300 μ sec, 1% Duty Cycle.

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RATING AND CHARACTERISTIC CURVES 5 AVERAGE FORWARD CURRENT, AMPERES 100 PEAK FORWARD SURGE CURRENT AMPERES 4 80 3 60 I I SINGLE PHASE HALF WAVE 60Hz RESISTIVE OR INDUCTIVE LOAD 2 40 1 20 0 0 1 10 10 0 20 40 60 100 120 140 160 180 80 LEAD TEMPERATURE ,°C NO. OF CYCLE AT 60H_z Fig.2 -MAXIMUM NON-REPETITIVE SURGE Fig.1- FORWARD CURRENT DERATING CURVE CURRENT 10³ 10 V_{RRM}=20-40V V_{RRM}=50-60V FORWARD CURRENT, AMPERES 10 20-40V 50-60\ T_=100°C **REVERSE CURRENT, mA** 10¹ 1.0 10° 10⁻¹ T,=25°C -10 TA=25°C 0.1 └─ 0.2 10⁻³∟ 20 0.8 1.0 40 60 80 100 120 0.4 0.6 FORWARD VOLTAGE, VOLTS PERCENT OF RATED PEAK REVERSE VOLTAGE.% Fig.4- TYPICAL INSTANTANEOUS FORWARD Fig.3-TYPICAL REVERSE CHARACTERISTIC CHARACTERISTIC



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MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.5K per 7" plastic Reel





(PBCD)

D

FORMING

F





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