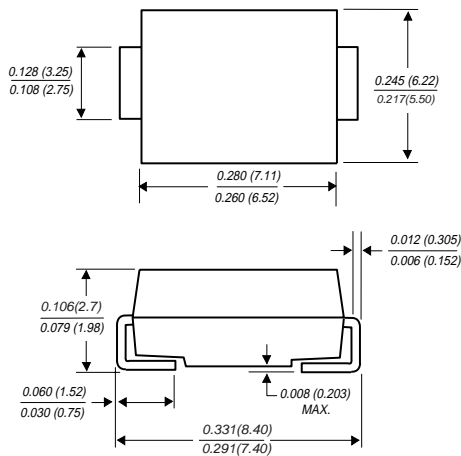


SK62~SK620

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 200 Volts Forward Current - 6.0 Amperes

DO-214AB



Dimensions in inches and (millimeters)

FEATURES

- FOR SURFACE MOUNTED APPLICATIONS
- LOW PROFILE PACKAGE
- BUILT-IN STRAIN RELIEF
- EASY PICK AND PLACE
- PLASTIC MATERIAL USED CARRIES UNDERWRITERS LABORATORY CLASSIFICATION 94 V-0
- EXTREMELY LOW VF
- MAJORITY CARRIER CONDUCTION
- HIGH TEMPERATURE SOLDERING : 260°C//10 SECONDS AT TERMINALS

MECHANICAL DATA

- CASE : DO-214AB(SMC)
- TERMINALS : SOLDER PLATED
- POLARITY : INDICATED BY CATHODE BAND
- WEIGHT : 0.22GRAMS

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

Resistive or inductive load

	SYMBOL	SK62	SK63	SK64	SK65	SK66	SK68	SK69	SK610	SK615	SK620	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	90	100	150	200	Volts
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	63	70	105	140	Volts
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	90	100	150	200	Volts
Maximum Average Forward Current .375" (9.5mm) lead length at $T_L = 75^\circ\text{C}$	$I_{(AV)}$	6.0										Amps
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	150										Amps
Maximum Instantaneous Forward Voltage at 6.0A	V_F	0.55		0.75		0.85		0.9				Volts
Maximum DC Reverse Current $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage $T_A = 100^\circ\text{C}$	I_R	1.0					20					mA
Maximum Thermal Resistance (NOTE 2)	$R_{\theta JA}$ $R_{\theta JL}$	75					20					$^\circ\text{C} / \text{W}$
Operating Junction Temperature Range	T_J	-50 to +125										$^\circ\text{C}$
Storage and Operating Temperature Range	T_{STG}	-55 to +150										$^\circ\text{C}$

NOTES :

1. Pulse test with $PW = 300 \mu\text{sec}$, 1% duty cycle
2. Mounted on P.C.Board with 8mm^2 (0.13mm thick) copper pad areas

RATINGS AND CHARACTERISTIC CURVES SK62 THRU SK620

Fig.1 - FORWARD CURRENT DERATING CURVE

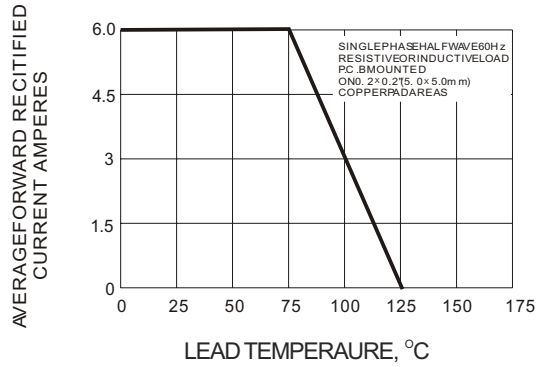


Fig.2 - MAXIMUMNON-REPETITIVEPEAK FORWARD SURGE CURRENT

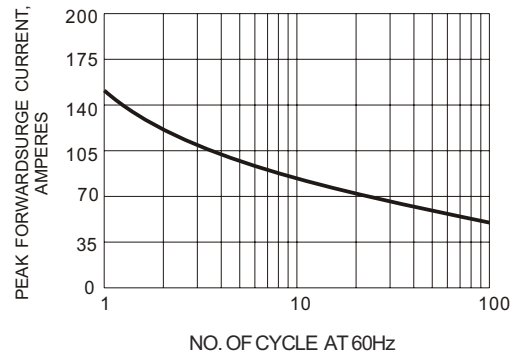


Fig.3- TYPICAL REVERSE CHARACTERISTIC

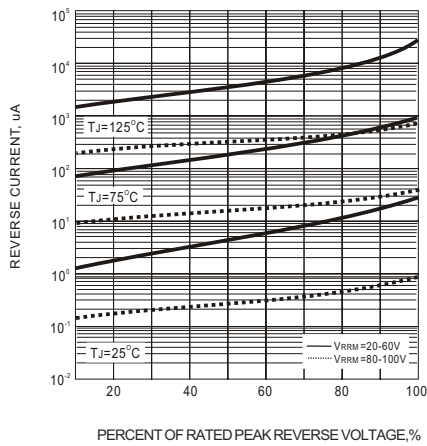


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

