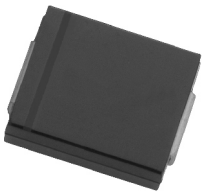
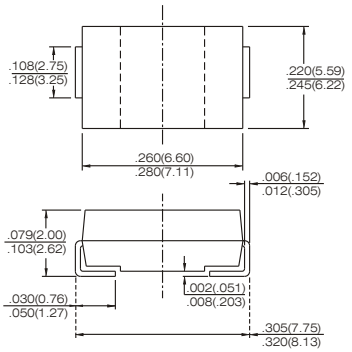
SK82C thru SK810C

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE - 20 TO 100 VOLTS CURRENT - 8.0 AMPERES



SMC/DO-214AB



Dimensions in inches and (millimeters)

FEATURES

- Plastic package has Underwriters Laboratory
- Flammability Classification 94V-0
- For surface mount applications
- Low profile package
- Built-in strain relief
- Metal to silicon rectifier, majority carrier conduction
- Low power loss, high efficiency
- High surge capability
- High current capability, low VF
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications.
- Pb free product are available：99% Sn above can meet RoHS Environment substance directive request

MECHANICAL DATA

Case：JEDEC DO-214AB molded plastic
Terminals：Solder plated, solderable per MIL-STD-750, Method 2026
Polarity：Color band denotes cathode end (cathode)
Standard Package：16mm tape (EIA-481)
Weight：0.007 ounce, 0.21gram

MAXIMUM RATIXGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOL	SK82C	SK83C	SK84C	SK85C	SK86C	SK88C	SK89C	SK810C	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	90	100	Volts
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	63	70	Volts
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	90	100	Volts
Maximum Average Forward Current .375" (9.5mm) lead length at T_L =75°C	$I_{(AV)}$	8.0								Amps
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	200								Amps
Maximum Forward Voltage at 8.0A (Note 1)	V_F	0.65			0.85		0.85			Volts
Maximum DC Reverse Current T_A=25°C at Rated DC Blocking Voltage T_A=100°C	I_R	1.0 20								mA
Maximum Thermal Resistance (NOTE 2)	$R_{\theta JL}$ $R_{\theta JA}$	20 75								°C / W
Operating Junction Temperature Rang	T_J	-50 to +125								°C
Storage Temperature Range	T_{STG}	-50 to +150								°C

NOTES：
1. Pulse test with PW=300 μ sec, 1% duty cycle
2. Mounted on P.C.Board with 8mm² (0.13mm think) copper pad areas

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

RATINGS AND CHARACTERISTIC CURVES S82C THRU SK810C

Fig.1- FORWARD CURRENT DERATING CURVE

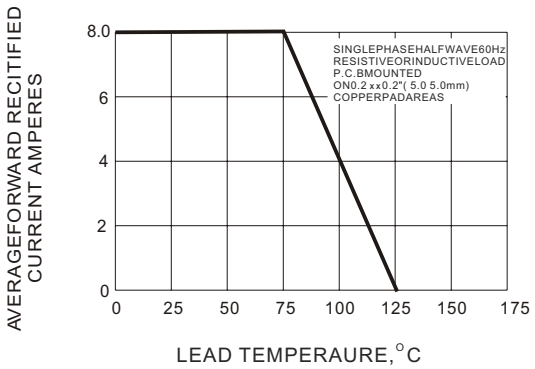


Fig.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

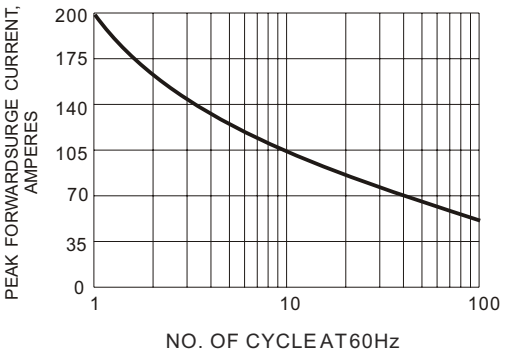


Fig.3- TYPICAL REVERSE CHARACTERISTIC

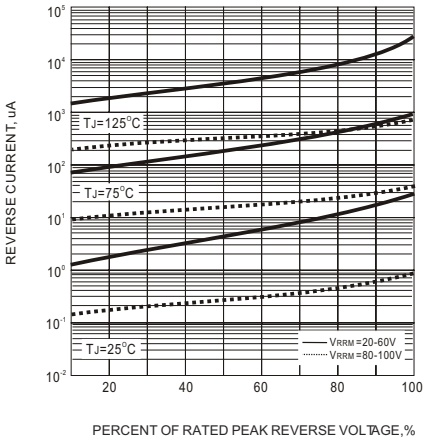


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC