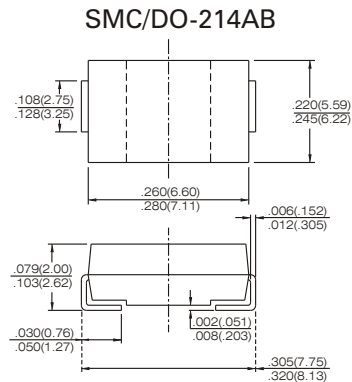


SK62C thru SK610C

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE - 20 TO 100 VOLTS CURRENT - 6.0 AMPERES



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 : 12mm tape (EIA-481)
Weight : 0.007 ounce, 0.021gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOL	SK62C	SK63C	SK64C	SK65C	SK66C	SK68C	SK69C	SK610C	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)	6.0								Amps
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	150								Amps
Maximum Forward Voltage at 6.0A (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 _θ JL R _θ 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 $PW = 300 \mu \text{ sec}$, 1% duty cycle
2. Mounted on P.C.Board with 8mm^2 (0.13mm thick) copper pad areas

SK62C thru SK610C

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

RATINGS AND CHARACTERISTIC CURVES S62C THRU SK610C

Fig.1 - FORWARD CURRENT DERATING CURVE

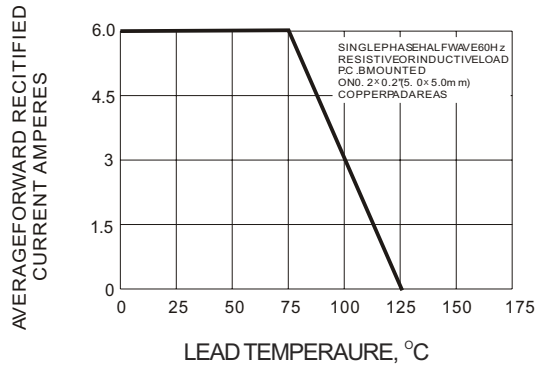


Fig.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

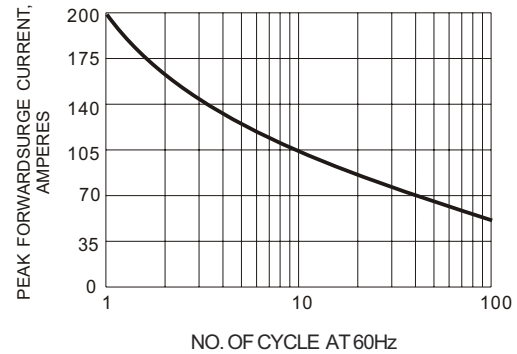


Fig.3- TYPICAL REVERSE CHARACTERISTIC

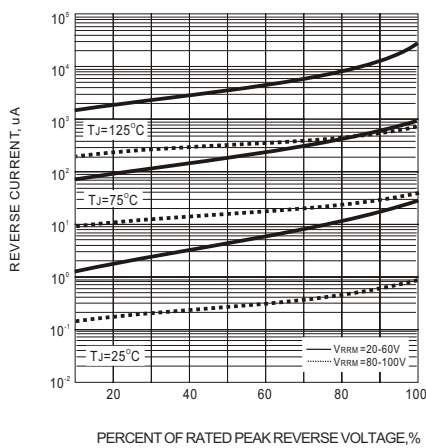


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

