

SK44L

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 40 Volts **CURRENT** 4.0 Amperes

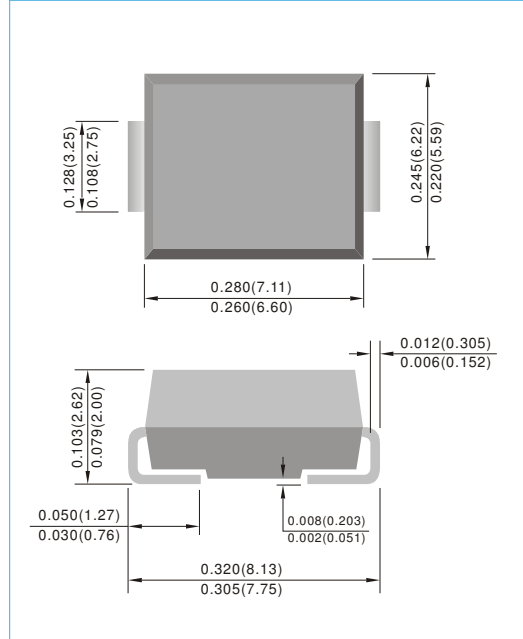
SMC / DO-214AB Unit : inch(mm)

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal to silicon rectifier. majority carrier conduction
- Low power loss,high efficiency
- High surge capacity
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: JEDEC DO-214AB molded plastic
- Terminals:Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Standard packaging: 16mm tape (EIA-481)
- Weight: 0.0082 ounce, 0.2325 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	SK44L	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	V
Maximum RMS Voltage	V_{RMS}	28	V
Maximum DC Blocking Voltage	V_{DC}	40	V
Maximum Average Forward Rectified Current (See Fig.3)	$I_{F(AV)}$	4.0	A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	150	A
Typical Forward Voltage at 1.0A (Note 1)	V_F	0.36	V
Typical Forward Voltage at 2.0A (Note 1)		0.39	
Maximum Forward Voltage at 4.0A (Note 1)		0.44	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	0.2	mA
		20	
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$ $R_{\theta JL}$	75 15	°C/W
Operating Junction Temperature Range	T_J	-55 to +125	
Storage Temperature Range	T_{STG}	-55 to +150	°C

NOTES:

1. Pulse Test with PW =300μsec, 1% Duty Cycle.
2. P.C.B Mounted 14x10mm copper pad area.

SK44L

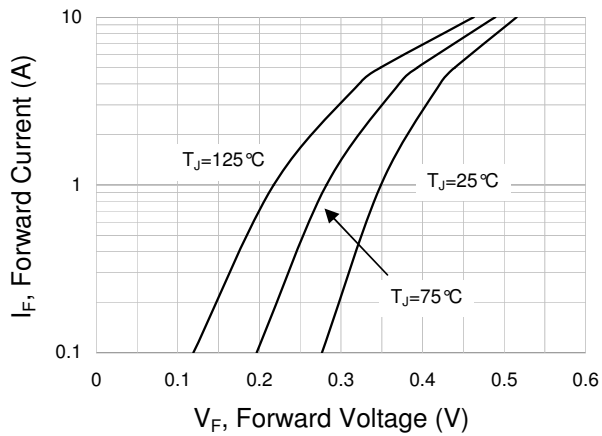


Fig.1 Typical Forward Characteristics

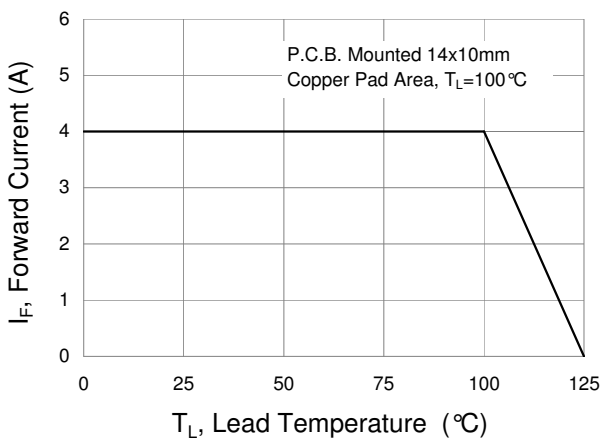


Fig.3 Forward Current Derating Curve

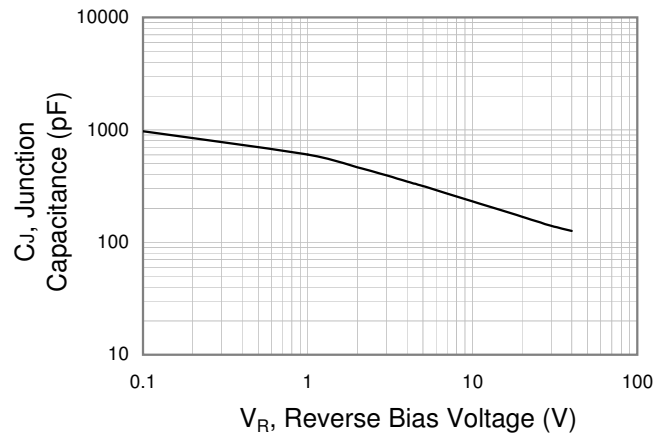


Fig.2 Typical Junction Capacitance

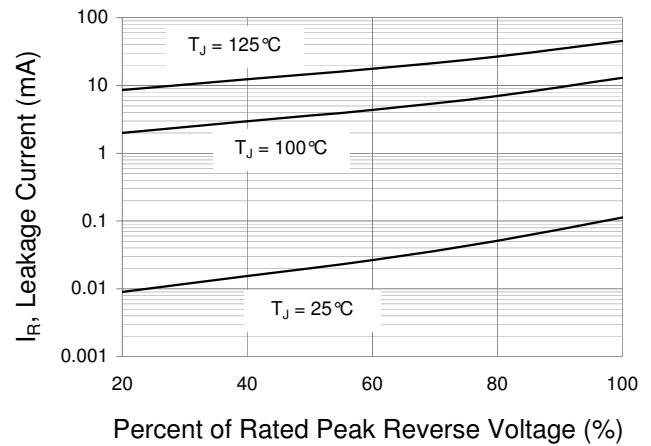
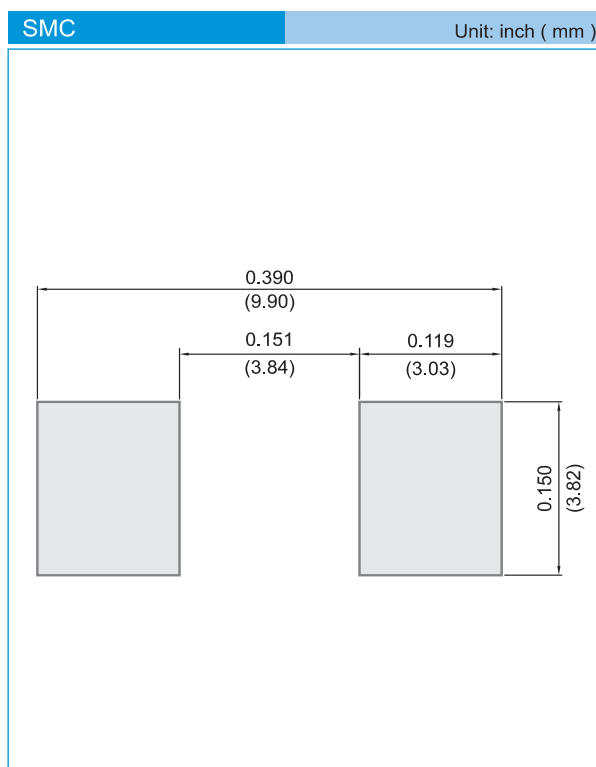


Fig.4 Typical Reverse Characteristics

SK44L

MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R - 3K per 13" plastic Reel
 - T/R - 0.5Kper 7" plastic Reel

LEGAL STATEMENT

Copyright PanJit International, Inc 2010

The information presented in this document is believed to be accurate and reliable. The specifications and information herein are subject to change without notice. Pan Jit makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose. Pan Jit products are not authorized for use in life support devices or systems. Pan Jit does not convey any license under its patent rights or rights of others.