



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 40~60 Volt **CURRENT** 5 Ampere

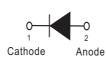
FEATURES

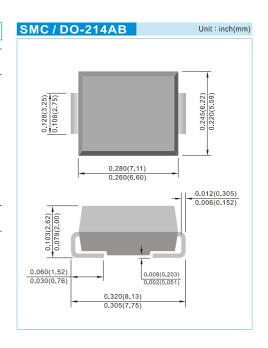
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- · For surface mounted applications in order to optimize board space
- · Low power loss, high efficiency
- · High surge capacity
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

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 ounces, 0.2325 grams







MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	SK54L	SK56L	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	60	V
Maximum RMS Voltage	V _{RMS}	28	42	V
Maximum DC Blocking Voltage	V _{DC}	40	60	V
Maximum Average Forward Rectified Current at T _c =120°C	I _{F(AV)}	5		Α
Peak Forward Surge Current: 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	100		А
Maximum Forward Voltage at 5A (Note 1)	V _F	0.44	0.5	V
Maximum DC Reverse Current at Rated DC $T_J=25^{\circ}C$ Blocking Voltage $T_J=100^{\circ}C$	I _R	0.5 50		mA
Typical Thermal Resistance (Note 2)	R _{ejl}	17		°C / W
Operating Junction Temperature Range	T	-55 to +150		°C
Storage Temperature Range	T _{stg}	-55 to +150		°C

NOTES:

- 1. Pulse Test with PW =300µsec, 1% Duty Cycle.
- 2. Mounted on P.C. Board with 14mm² (.013mm thick) copper pad areas.





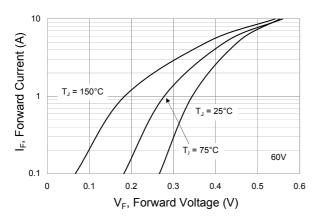


Fig.1 Typical Forward Characteristics

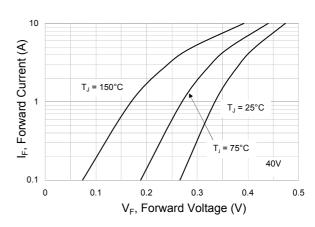


Fig.2 Typical Forward Characteristics

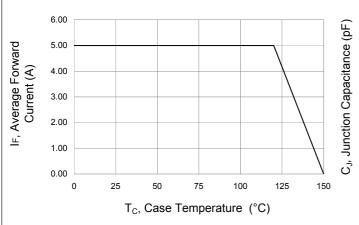


Fig.3 Forward Current Derating Curve

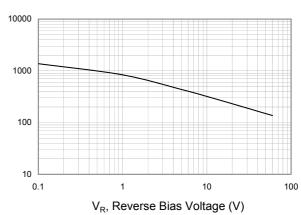


Fig.4 Typical Junction Capacitance under Bias

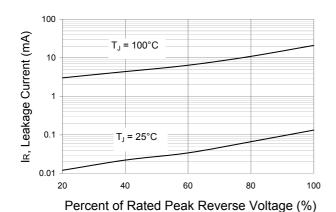


Fig.5 Typical Reverse Characteristics

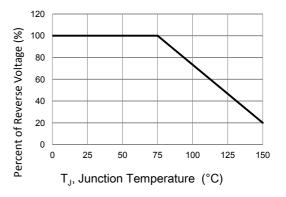
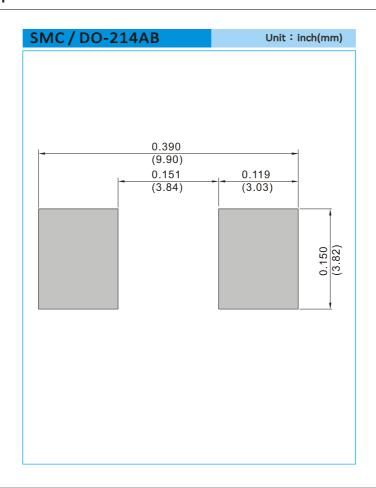


Fig.6 Operating Temperature Derating Curve





MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.8K per 7" plastic Reel

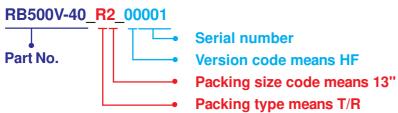




Part No_packing code_Version

SK54L_R1_00001 SK54L_R2_00001

For example :



Packing Code XX			Version Code XXXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	Т	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			





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