



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

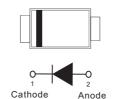
VOLTAGE 20 to 60 Volt CURRENT 1 Ampere

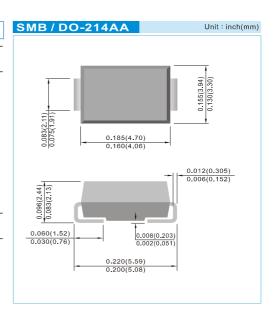
FEATURES

- 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
- High current capacity, low V_F
- Lead free in compliance with EU RoHS 2.0
- · Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- · Case: JEDEC DO-214AA molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: Color band denotes cathode end
- Standard packaging: 12mm tape (EIA-481)
- · Weight: 0.0032 ounces, 0.092 grams





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	SK12	SK13	SK14	SK15	SK16	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	٧
Maximum Average Forward Current at T _L =75°C	I _{F(AV)}	1				А	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	30				Α	
Maximum Forward Voltage at 1A (Note 1)	V _F	0.5 0.7			.7	V	
Maximum DC Reverse Current at Rated DC Blocking T_J =25°C Voltage T_J =100°C	I _R	0.2 0.1 20 20				mA	
Typical Thermal Resistance (Note 2)	R _{eJL} R _{eJA}	30 95			°C / W		
Operating Junction Temperature Range	T _J	-50 to +125 -50 to +150			0	°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 $5 \text{mm}^{\,2}\,$ (0.013mm thick) copper pad areas.





RATING AND CHARACTERISTIC CURVES

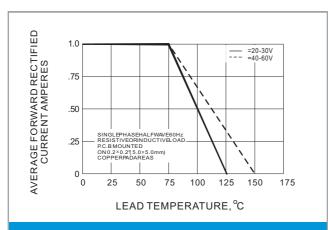


Fig.1 FORWARD CURRENT DERATING CURVE

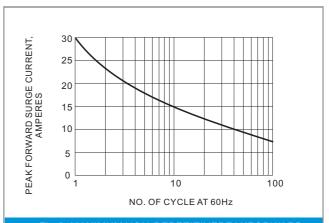


Fig.2 MAXIMUM NON-REPETITIVEPEAKFORWARD SURGE CURRENT

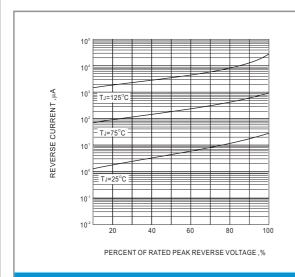


Fig.3 TYPICAL REVERSE CHARACTERISTIC

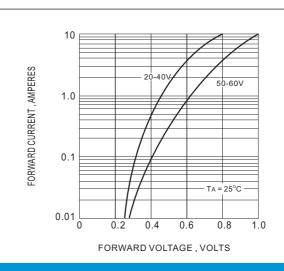


Fig.4 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

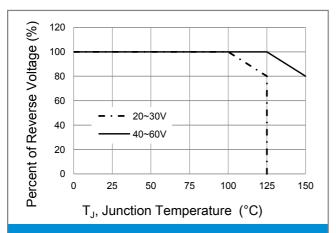
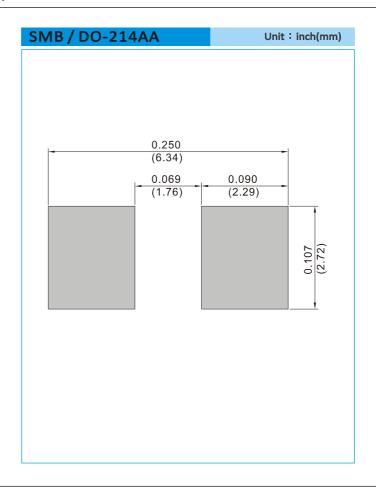


Fig.5 Operating Temperature Derating Curve





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

SK12_R1_00001 SK12_R2_00001

For example :



Packing Code XX				Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code	
Tape and Ammunition Box (T/B)	Α	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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