



SK22~SK26

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

Voltage

20~60 V

Current

2 A

Features

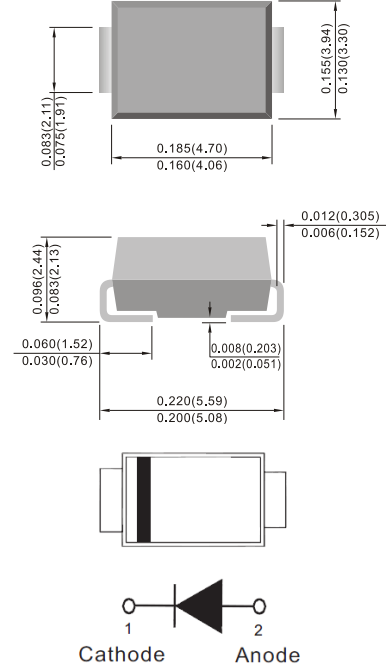
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0.
- For surface mounted applications in order to optimize board space
- Low power loss, High efficiency
- High surge capacity
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case: JEDEC DO-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)
- Approx. Weight: 0.0032 ounces, 0.092 grams
- Marking: Part number

SMB

Unit: inch(mm)



Maximum Ratings ($T_A=25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	SK22	SK23	SK24	SK25	SK26	UNIT	
Maximum repetitive 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_R	20	30	40	50	60	V	
Maximum average forward rectified current	$I_{F(AV)}$	2					A	
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	50					A	
Maximum forward voltage at 2A per diode (Note 1)	V_F	0.5			0.7		V	
Maximum dc reverse current	I_R	90					$T_J=25^\circ\text{C}$	μA
at rated dc blocking voltage							$T_J=100^\circ\text{C}$	20
Typical thermal resistance (Note 2)	$R_{\theta JL}$	12					$^\circ\text{C/W}$	
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150					$^\circ\text{C}$	

Note :

1. Pulse Test with $PW=300\mu\text{sec}$, 1% Duty Cycle
2. Mounted on P.C. Board with 8mm^2 (0.013mm thick) copper pad areas.



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TYPICAL CHARACTERISTIC CURVES

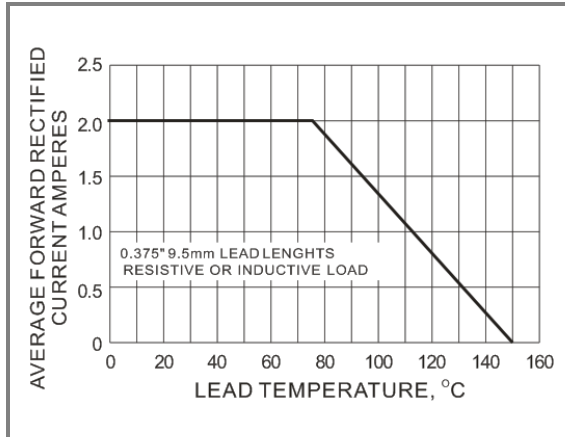


Fig.1 Forward Current Derating Curve

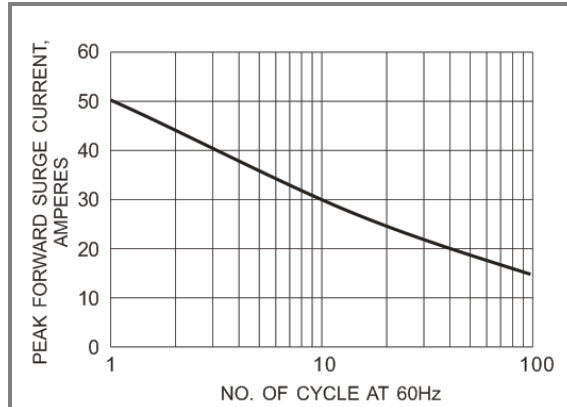


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

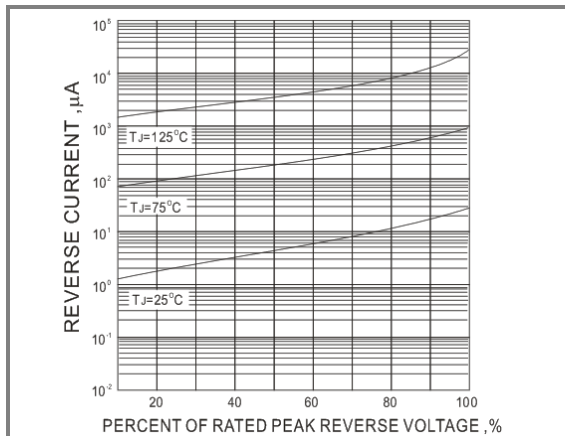


Fig.3 Typical Reverse Characteristics

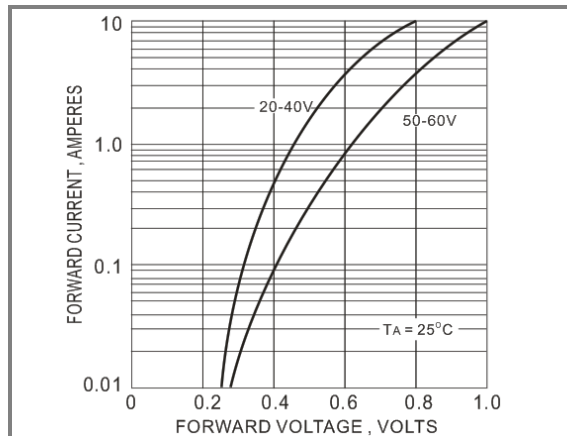


Fig.4 Typical Instantaneous Forward Characteristic

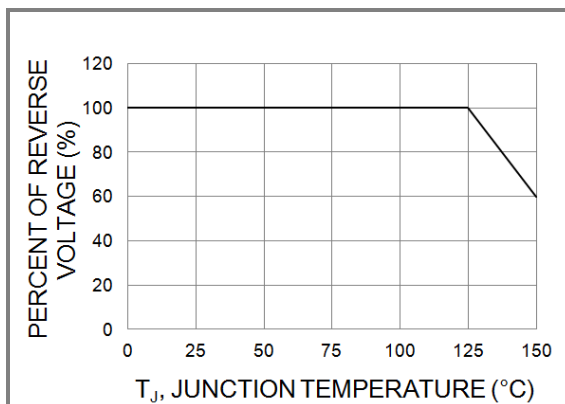


Fig.5 Operating Temperature Derating Curve

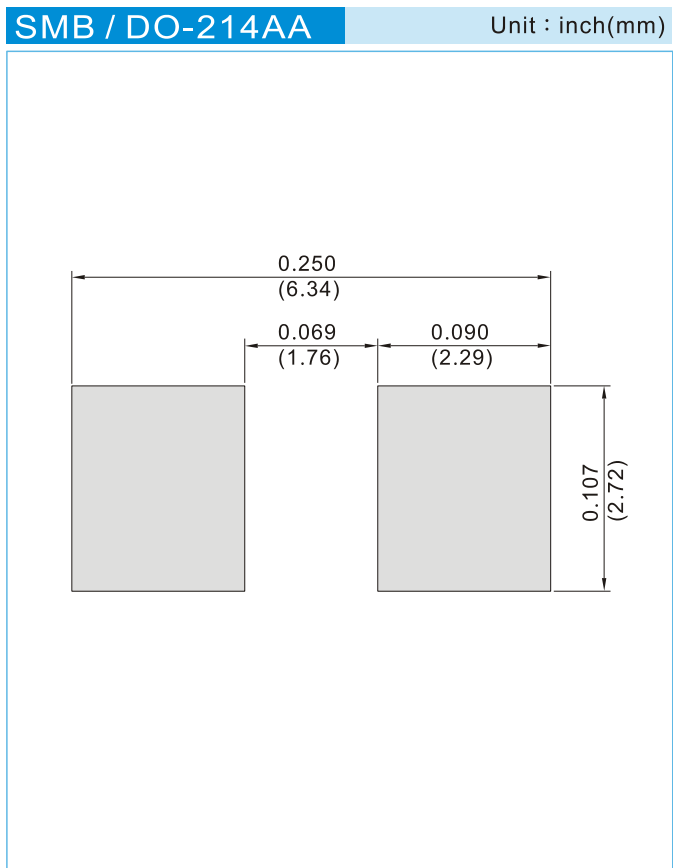


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Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
SK22_R1_00001	SMB	0.8K pcs / 7" reel	SK22	Halogen free
SK22_R2_00001	SMB	3K pcs / 13" reel	SK22	Halogen free

Mounting Pad Layout





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