



SK23L SERIES

LOW VF SURFACE MOUNT SCHOTTKY RECTIFIER

SMB / DO-214AA

Unit : inch(mm)

VOLTAGE 30 to 40 Volts

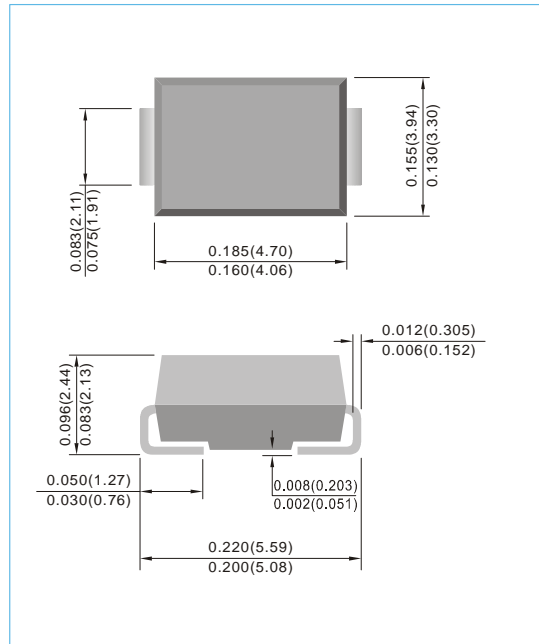
CURRENT 2.0 Amperes

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-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 ounce, 0.092 gram



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

PARAMETER	SYMBOL	SK23L	SK24L	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	30	40	V
Maximum rms voltage	V_{RMS}	21	28	V
Maximum dc blocking voltage	V_{DC}	30	40	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
Typical Thermal Resistance (Note 1) (Note 2)	$R_{\theta JA}$ $R_{\theta JC}$	130 10		$^{\circ}\text{C}/\text{W}$
Operating junction temperature range	T_J	-55 to + 125		$^{\circ}\text{C}$
Storage temperature range	T_{STG}	-55 to + 150		$^{\circ}\text{C}$

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

PARAMETER	SYMBOL	TEST CONDITIONS	TYP.	MAX.	UNIT
Instantaneous forward voltage	V_F	$I_F=1\text{A}$ $I_F=2\text{A}$ $T_A=25^{\circ}\text{C}$	0.34 0.40	- 0.43	V
		$I_F=1\text{A}$ $I_F=2\text{A}$ $T_A=125^{\circ}\text{C}$	0.24 0.33	- 0.36	V
Reverse current	I_R	$T_A=25^{\circ}\text{C}$	-	400	μA
		$T_A=100^{\circ}\text{C}$	-	30	mA

NOTES:

1. Minimum pad for each lead on board.
2. Mounted on heatsink (5cm x 5cm x 2pec) copper and areas.



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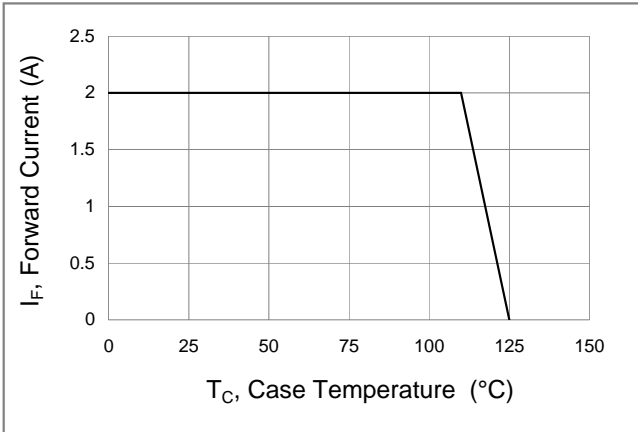


Fig.1 Forward Current Derating Curve

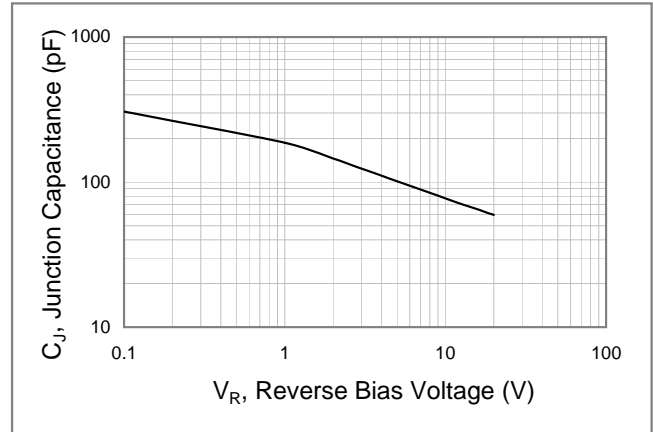


Fig.2 Typical Junction Capacitance

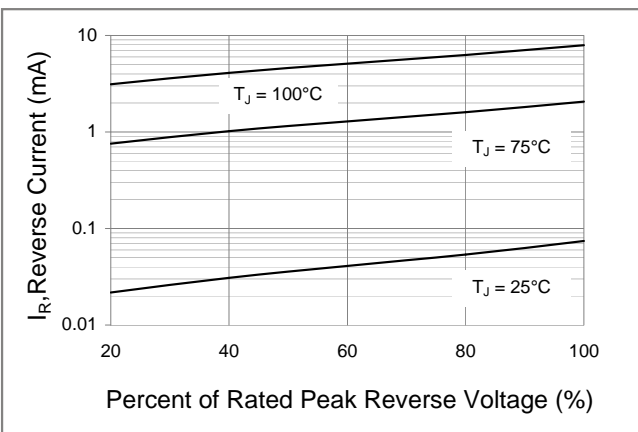


Fig.3 Typical Reverse Characteristics

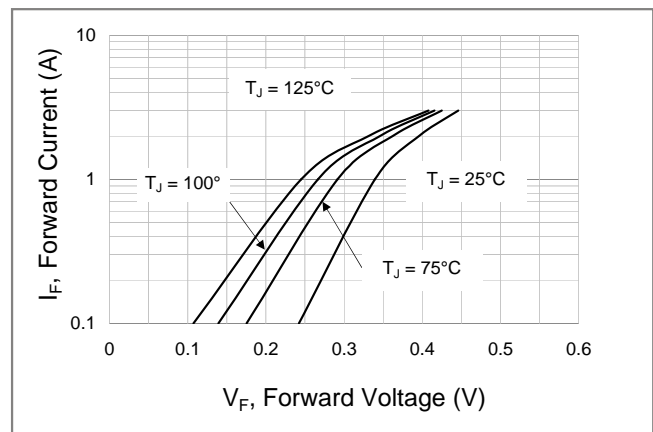
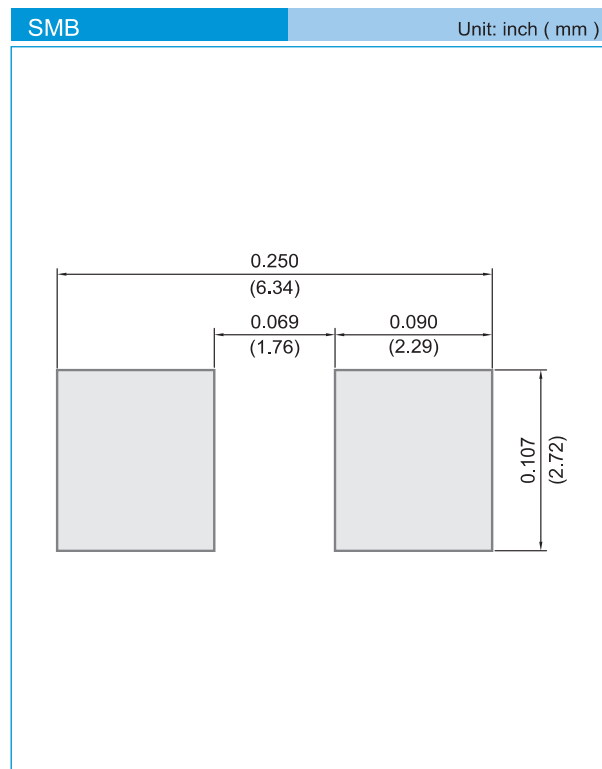


Fig.4 Typical Forward Characteristics



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MOUNTING PAD LAYOUT



ORDER INFORMATION

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

LEGAL STATEMENT

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