



Features

- ∻ For surface mounted application
- ∻ Metal silicon junction, majority carrier conduction
- ∻ Low forward voltage drop
- ∻ Easy pick and place
- ∻ High surge current capability
- ∻ Plastic material used carries Underwriters Laboratory Classification 94V-0
- ∻
- Epitaxial construction ♦
- High temperature soldering: 260°C / 10 seconds at terminals

Mechanical Data

- ∻ Cases: Molded plastic
- ∻ Terminals: Matte tin plating
- Polarity: Indicated by cathode band ∻
- ∻ Packaging: 16mm tape per EIA STD RS-481
- ∻ Weight: 0.093 gram

Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, denote current by 20%

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Type Number	Symbol	SKL13B	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	30	V
Maximum RMS Voltage	V _{RMS}	21	V
Maximum DC Blocking Voltage	V _{DC}	30	V
Maximum Average Forward Rectified Current See Fig. 1	I _(AV)	1.0	А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50	А
Maximum Instantaneous Forward Voltage (Note 1) @ 1.0A	V _F	0.39	V
Maximum DC Reverse Current @ T _A =25 °C	1-	0.2	mA
at Rated DC Blocking Voltage @ T _A =100 °C	IR	50	mA
Maximum Thermal Resistance (Note 2)	R _{θJL}	30	°C/M
	$R_{\theta JA}$	85	0/00
Operating Temperature Range	TJ	-55 to +125	O°
Storage Temperature Range	Tstg	-55 to + 150	O°

1. Pulse Test with PW=300 usec, 1% Duty Cycle. Notes:

2. Measured on P.C. Board with 0.4" x 0.4" (10 x 10mm) Copper Pad Areas.





Dimensions in inches and (millimeters)

Version: C10





RATINGS AND CHARACTERISTIC CURVES (SKL13B)

400 Tar25°C (H) UHV VageS0mVp-p 100 0 10 0 10 10 10 10 REVERSE VOLTAGE. (V)