





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

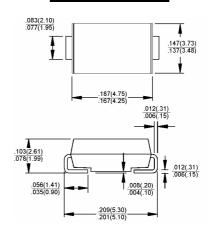
Polarity: Indicated by cathode band Packaging: 16mm tape per EIA STD

RS-481

Weight: 0.093 gram

SKL13B

1.0 AMP. Surface Mount Low V_F Schottky Barrier Rectifiers SMB/DO-214AA



Dimensions in inches and (millimeters)

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, derate current by 20%

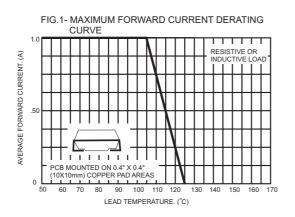
Type Number	Symbol	SKL13B	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	30	V
Maximum RMS Voltage	V _{RMS}	21	V
Maximum DC Blocking Voltage	V _{DC}	30	V
Maximum Average Forward Rectified Current See Fig. 1	I _(AV)	1.0	Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50	Α
Maximum Instantaneous Forward Voltage (Note 1) @ 1.0A	V _F	0.39	V
Maximum DC Reverse Current @ T_A =25 $^{\circ}$ C at Rated DC Blocking Voltage @ T_A =100 $^{\circ}$ C	I _R	0.2 50	mA mA
Maximum Thermal Resistance (Note 2)	R _{θJL} R _{θJA}	30 85	°C/W
Operating Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	Тѕтѕ	-55 to + 150	°C

Notes:

- 1. Pulse Test with PW=300 usec, 1% Duty Cycle.
- 2. Measured on P.C. Board with 0.4" x 0.4" (10 x 10mm) Copper Pad Areas.



RATINGS AND CHARACTERISTIC CURVES (SKL13B)



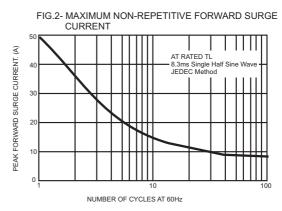


FIG.3- TYPICAL FORWARD CHARACTERISTICS

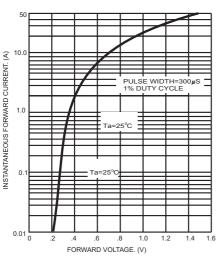


FIG.4- TYPICAL REVERSE CHARACTERISTICS

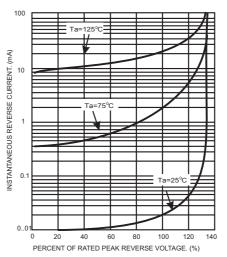


FIG.5- TYPICAL JUNCTION CAPACITANCE

