

# SK27 THRU SK2B

**VOLTAGE 70V ~ 100V**

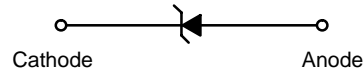
**2.0AMP Surface Mount Low V<sub>F</sub> Schottky Barrier Rectifiers**

## FEATURES

- \* For surface mount applications
- \* Epitaxial construction
- \* Very low forward voltage drop
- \* For use in low voltage, high frequency inverter, free wheeling

DO- 214AA

SMB



## MECHANICAL DATA

- \* Case: Molded plastic
- \* Epoxy: UL 94V- 0 rate flame retardant
- \* Polarity: Color band denotes cathode end
- \* Weight: 0.093 grams

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.

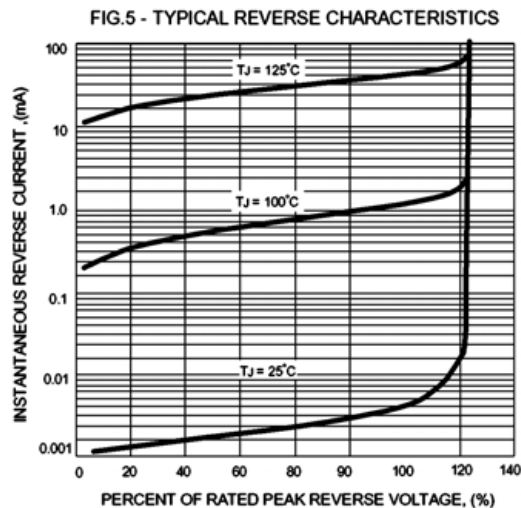
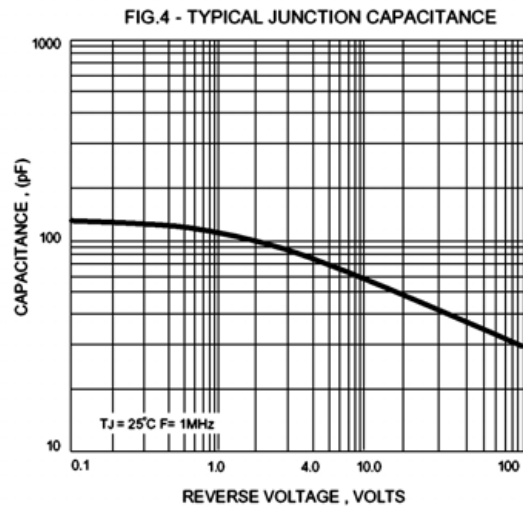
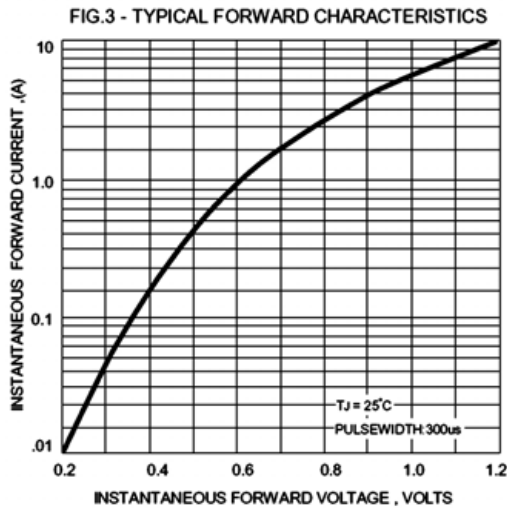
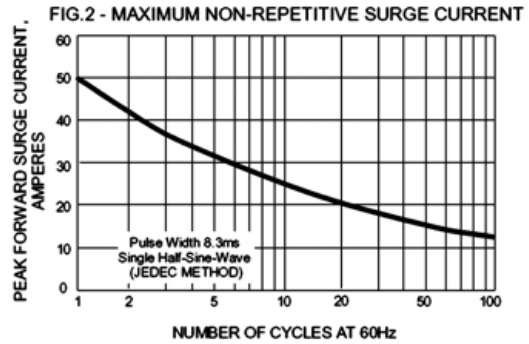
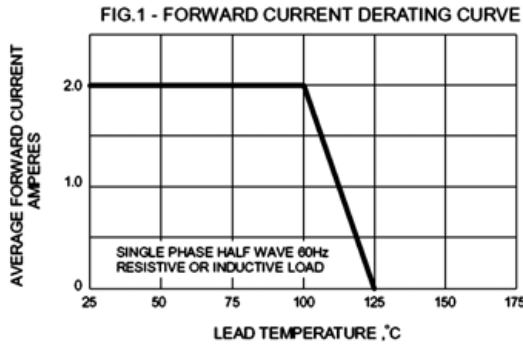
Single phase half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Parameter	Symbols	SK27	SK28	SK29	SK2B	Units
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	70	80	90	100	Volts
Maximum RMS voltage	V <sub>RMS</sub>	49	56	63	70	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	70	80	90	100	Volts
Maximum average forward rectified current @T <sub>L</sub> =100°C	I <sub>(AV)</sub>	2.0				Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	50.0				Amps
Maximum forward voltage at 2.0A DC @T <sub>J</sub> = 25°C @T <sub>J</sub> = 100°C	V <sub>F</sub>	0.79 0.69				Volts
Maximum DC reverse current at rated DC blocking voltage @T <sub>J</sub> = 25°C @T <sub>J</sub> =100°C	I <sub>R</sub>	0.5 15				mA
Typical junction capacitance (Note 1)	C <sub>J</sub>	75				pF
Typical thermal resistance (Note 2)	R <sub>θJL</sub>	15				°C/W
Operating junction temperature range	T <sub>J</sub>	-55 to +125				°C
Storage temperature range	T <sub>STG</sub>	-55 to +150				°C

- Notes:**
1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
  2. Thermal Resistance Junction to Lead.

## RATINGS AND CHARACTERISTIC CURVES



Package Dimensions in inches and (millimeters)

