

# SK17 THRU SK1B

**VOLTAGE 70V ~ 100V**

**1.0AMP Surface Mount 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

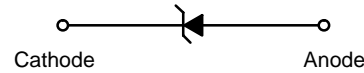
DO- 214AC

SMA



## MECHANICAL DATA

- \* Case: Molded plastic
- \* Epoxy: UL 94V- 0 rate flame retardant
- \* Polarity: Color band denotes cathode end
- \* Weight: 0.064 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%.

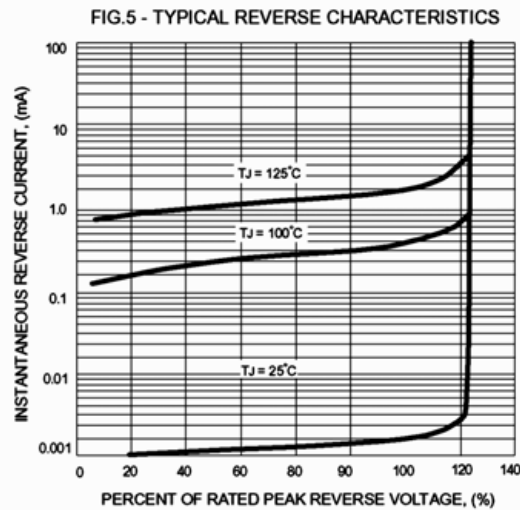
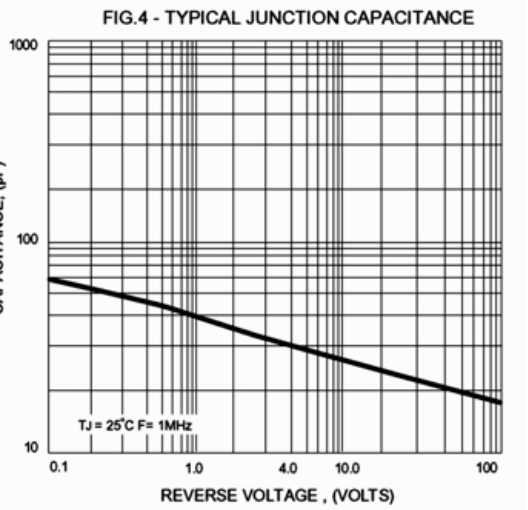
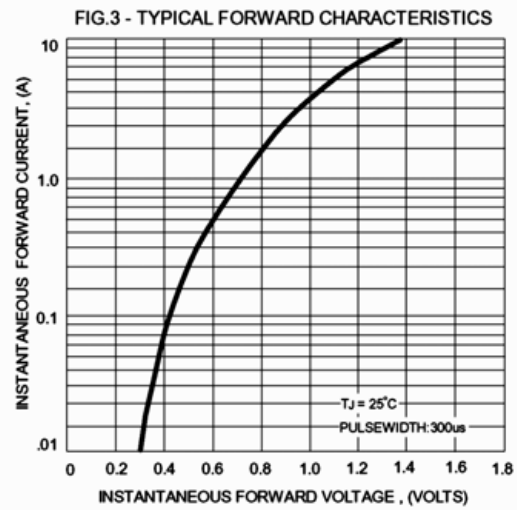
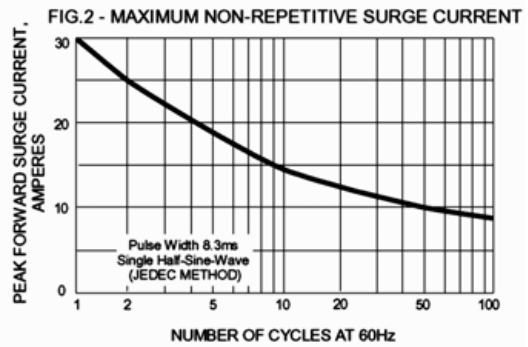
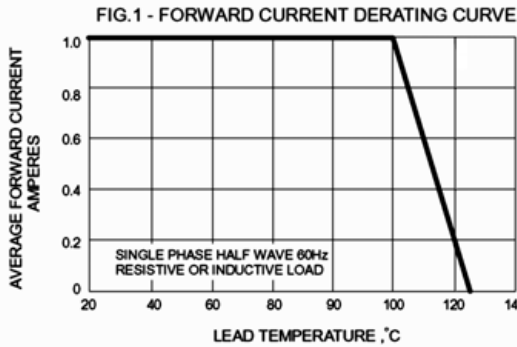
Parameter	Symbols	SK17	SK18	SK19	SK1B	Units
Maximum repetitive peak reverse voltage	$V_{RRM}$	70	80	90	100	Volts
Maximum RMS voltage	$V_{RMS}$	49	56	63	70	Volts
Maximum DC blocking voltage	$V_{DC}$	70	80	90	100	Volts
Maximum average forward rectified current @ $T_L=100^\circ\text{C}$	$I_{(AV)}$	1.0				Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	30.0				Amps
Maximum forward voltage at 1.0A DC @ $T_J=25^\circ\text{C}$ @ $T_J=100^\circ\text{C}$	$V_F$	0.79 0.69				Volts
Maximum DC reverse current at rated DC blocking voltage @ $T_J=25^\circ\text{C}$ @ $T_J=100^\circ\text{C}$	$I_R$	0.5 5.0				mA
Typical junction capacitance (Note 1)	$C_J$	30				pF
Typical thermal resistance (Note 2)	$R_{\theta JL}$	25				$^\circ\text{C/W}$
Operating junction temperature range	$T_J$	-55 to +125				$^\circ\text{C}$
Storage temperature range	$T_{STG}$	-55 to +150				$^\circ\text{C}$

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



# SK17 ~ SK1B

## RATINGS AND CHARACTERISTIC CURVES



Package Dimensions in inches and (millimeters)

