

SK27 THRU SK2B

VOLTAGE 70V ~ 100V

2.0AMP Surface Mount Low V_F 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

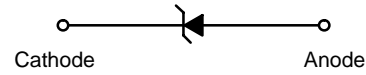
DO- 214AA

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.

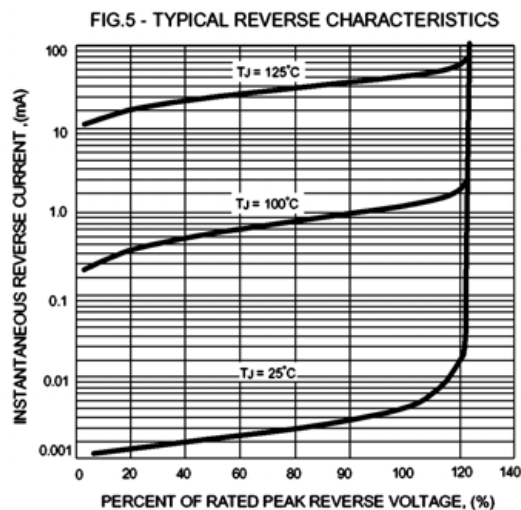
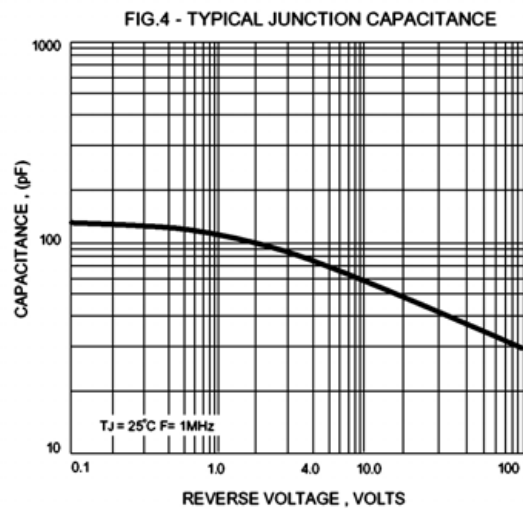
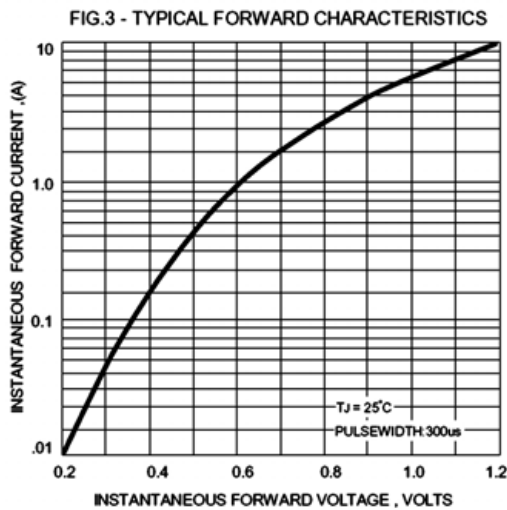
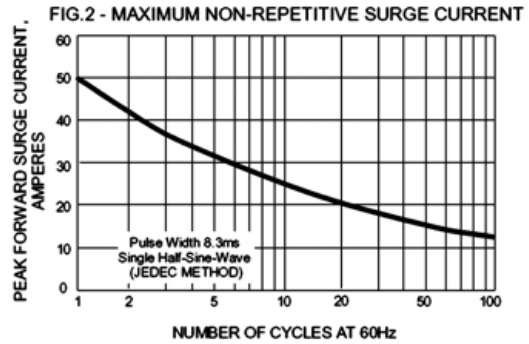
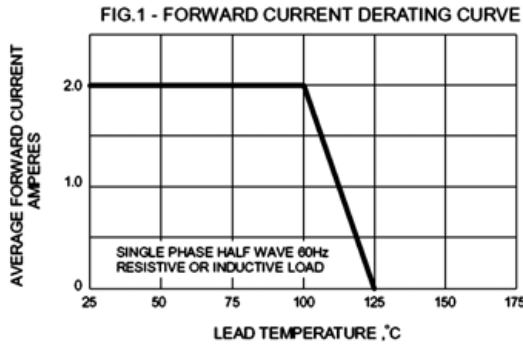
Single phase half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Parameter	Symbols	SK27	SK28	SK29	SK2B	Units
Maximum repetitive peak reverse voltage	V _{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°C	I _(AV)	2.0				Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	50.0				Amps
Maximum forward voltage at 2.0A DC @T _J = 25°C @T _J = 100°C	V _F	0.79 0.69				Volts
Maximum DC reverse current at rated DC blocking voltage @T _J = 25°C @T _J =100°C	I _R	0.5 15				mA
Typical junction capacitance (Note 1)	C _J	75				pF
Typical thermal resistance (Note 2)	R _{θJL}	15				°C/W
Operating junction temperature range	T _J	-55 to +125				°C
Storage temperature range	T _{STG}	-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)

