



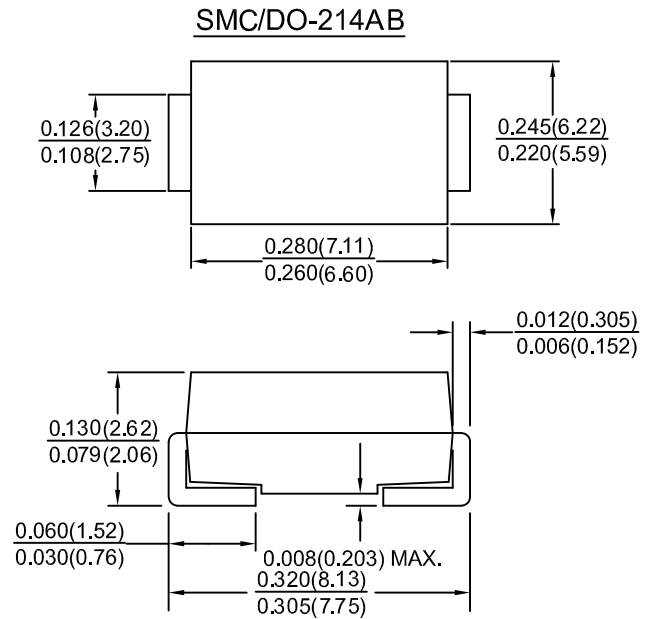
SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

FEATURES:

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High surge capability
- High current capability, low forward voltage drop
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- High temperature soldering guaranteed:
250°C/10 seconds at terminals

MECHANICAL DATA

Case: molded plastic body
 Terminals: Solder plated, solderable per MIL-STD-705, Method 2026
 Polarity: Color band on body denotes cathode end
 Weight: 0.003 ounce, 0.093 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

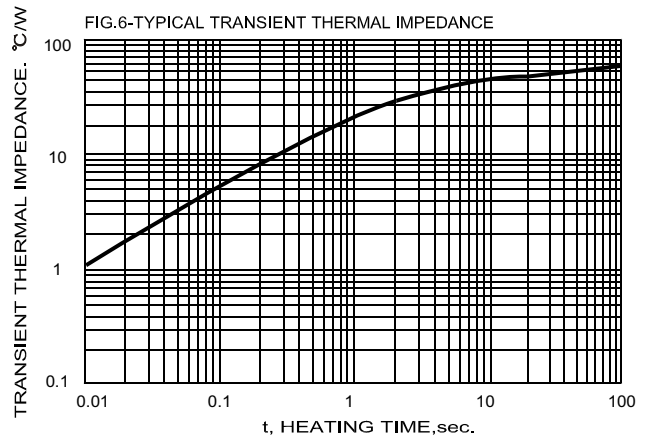
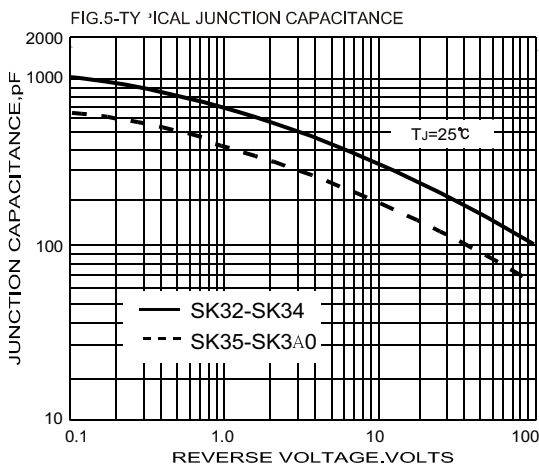
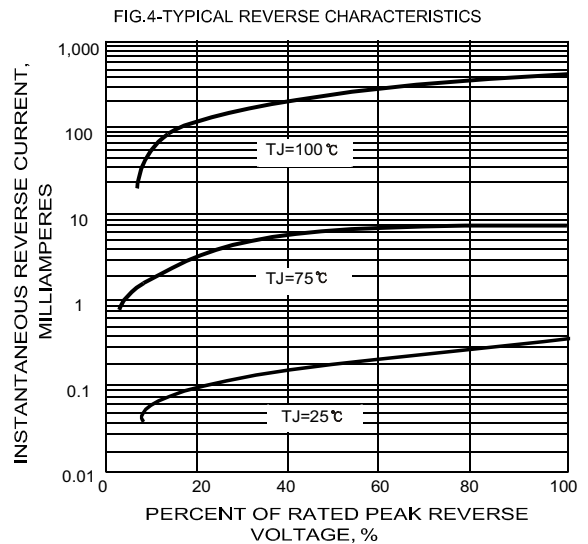
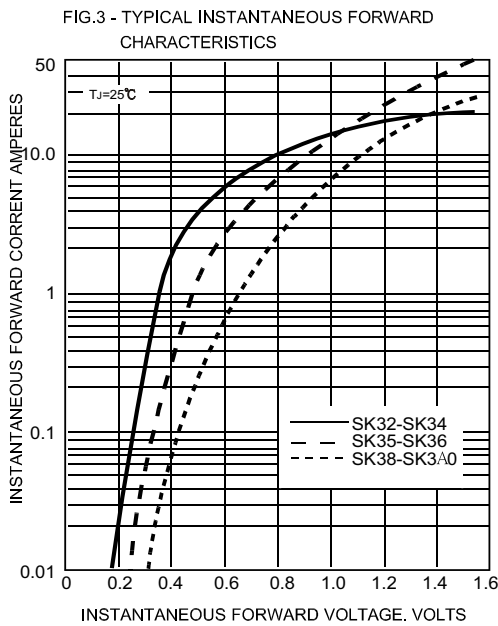
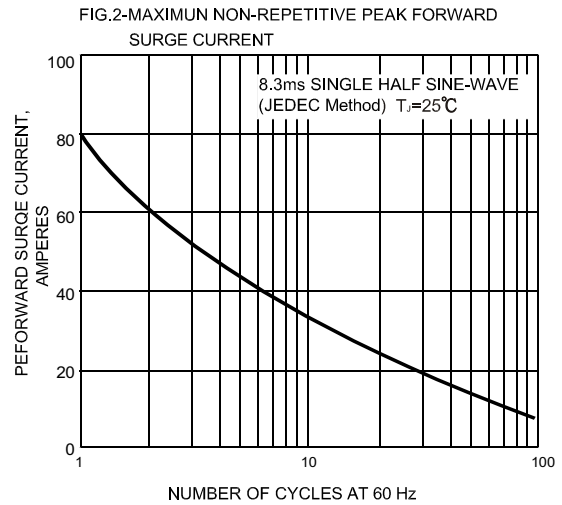
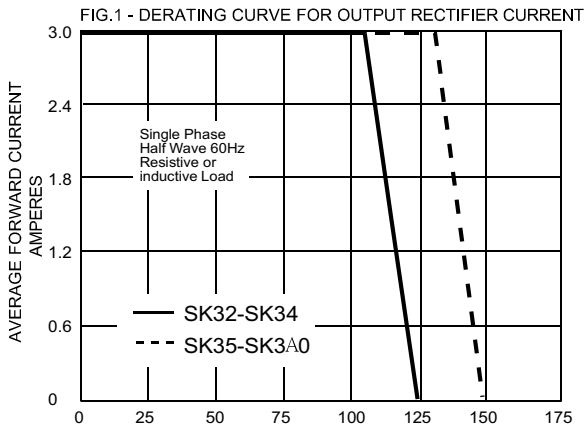
Rating at 25 °C ambient temp. unless otherwise specified.
 Single phase, half sine wave, 60 Hz, resistive or inductive load.
 For capacitive load, derate current by 20 %.

Characteristic	Symbol	SK32	SK33	SK34	SK35	SK36	SK38	SK3A0	Units
		SK32	SK33	SK34	SK35	SK36	SK38	SK3A0	
		SS32	SS33	SS34	SS35	SS36	SS38	SS3A0	
Maximum recurrent peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	Volts
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	Volts
Maximum DC voltage	V _{DC}	20	30	40	50	60	80	100	Volts
Maximum average forward rectified current at T _L (see fig.1)	I _O	3.0							Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	80							Amps
Maximum instantaneous forward voltage drop per leg bridge element at 3.0ADC (NOTE 3)	V _F	0.55		0.70		0.85		Volts	
Maximum DC reverse current (NOTE 3) T _a =25 °C	I _R	0.5							mA
Maximum DC blocking voltage T _a =100 °C		20							
Typical junction capacitance (note 1)	C _J	500			200			Pf	
Typical thermal resistance (note 2)	R _{θ-JA}	55.0							°C/W
Operating temperature range	T _J	-65 to +125							°C
Storage temperature range	T _{stg}	-65 to +150							°C

NOTE : 1. Measured at 1 MHz and applied reverse voltage of 4.0 volts
 2. P.C.B mounted with 0.2x0.2(5.0mmx5.0mm) copper pad areas
 3. Pulse test : 300 us pulse width, 1% duty cycle



RATINGS AND CHARACTERISTIC CURVES





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