

# SK32 THRU SK3A0

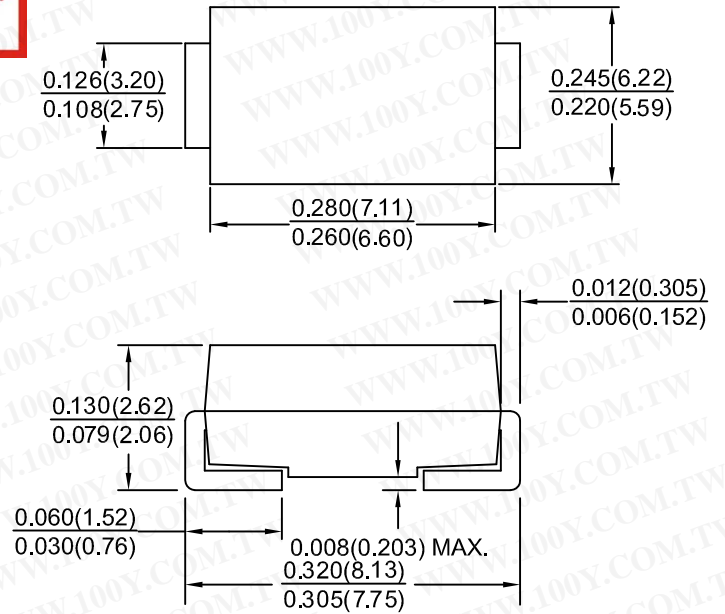
## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-54151736  
 勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

### SMC/DO-214AB

### 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)

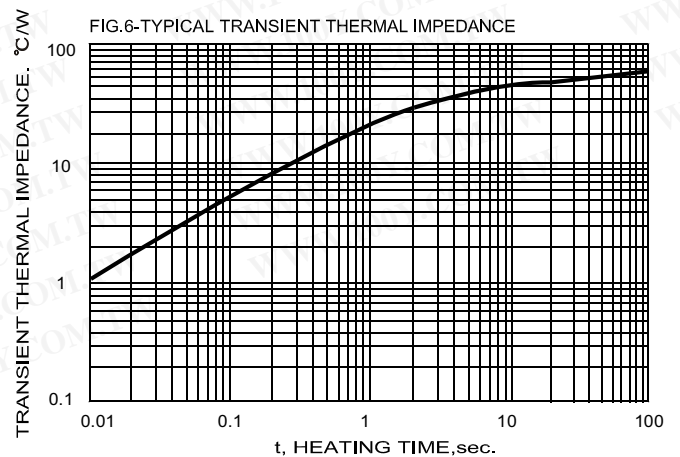
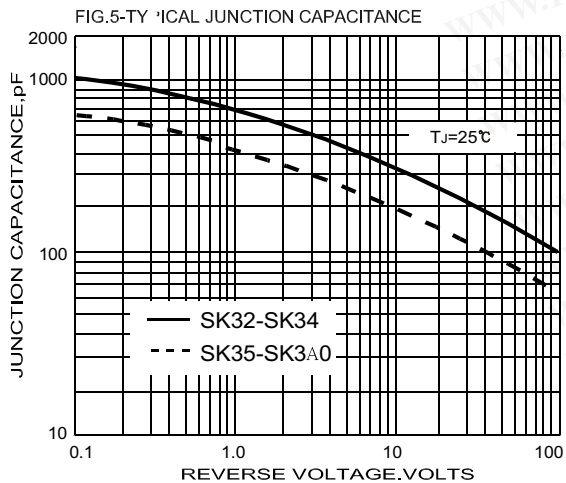
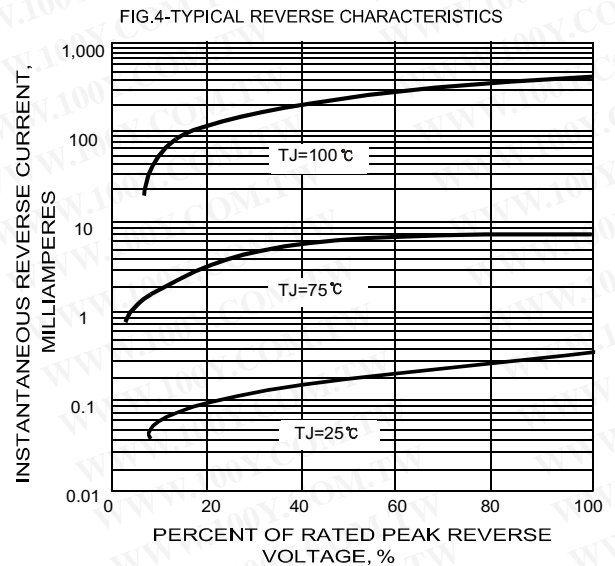
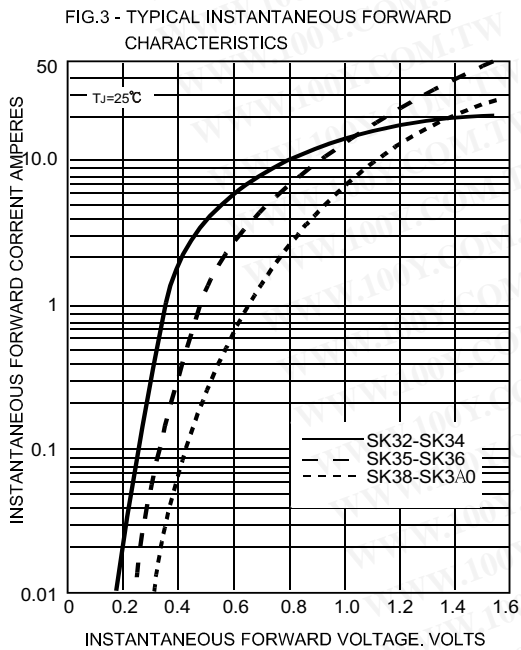
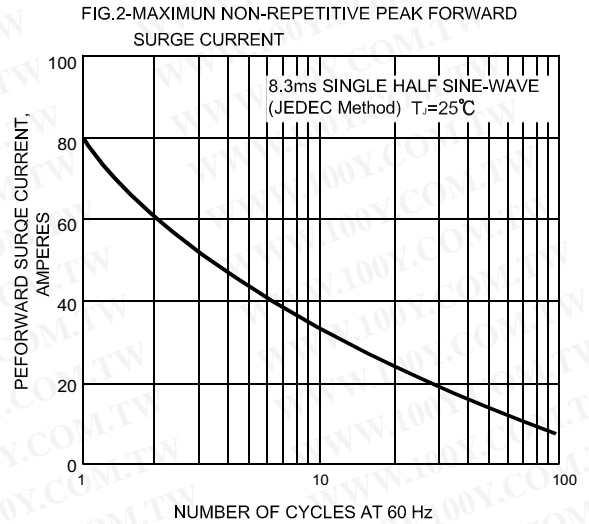
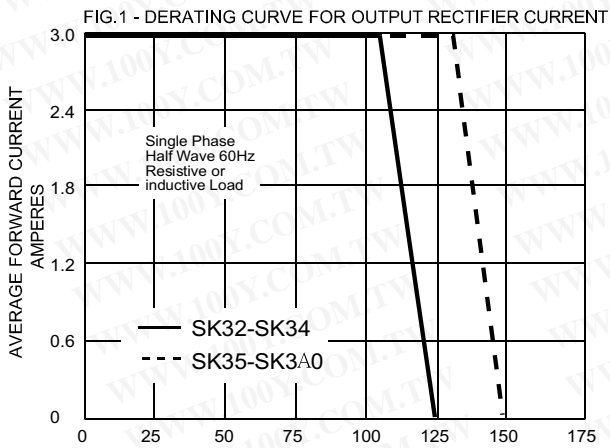
## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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



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