

# SRF16H20 THUR SRF16H60

## 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)

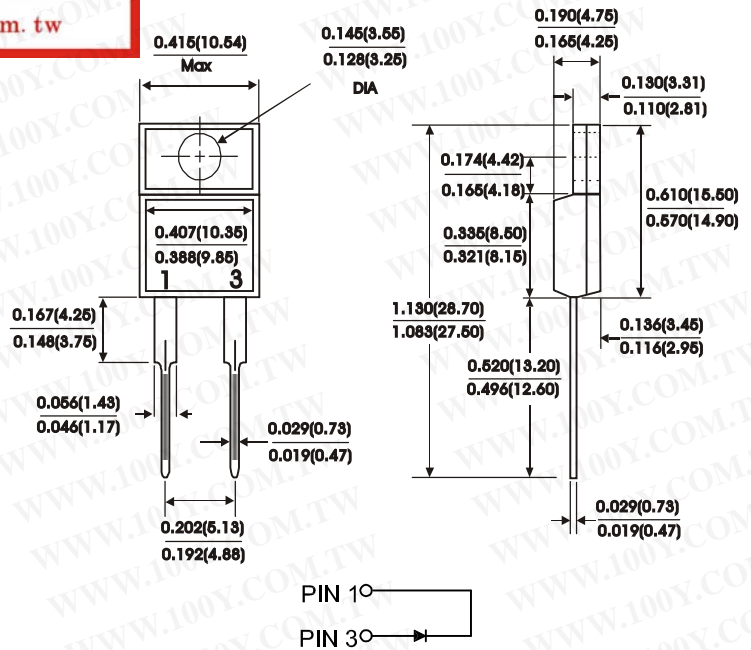
### ITO-220AC

#### FEATURES:

- Plastic package Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction Majority carrier conduction
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High temperature soldering guaranteed: 250°C/10 seconds, 0.25"(6.35mm) from case

#### MECHANICAL DATA

**Case :** JEDEC ITO-220AC molded plastic  
**Terminals :** Leads solderable per MIL-STD-750 Method 2026  
**Polarity :** As marked  
**Mounting Postition :** Any  
**Mounting Torque** 5 in - lbs.max  
**Weight :** 0.08 ounce, 2.24 grams



Dimensions in inches and (millimeters)

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Characteristic	Symbol	SRF 16H20	SRF 16H30	SRF 16H35	SRF 16H40	SRF 16H45	SRF 16H50	SRF 16H60	Units
Maximum recurrent peak reverse voltage	$V_{RRM}$	20	30	35	40	45	50	60	Volts
Maximum RMS voltage	$V_{RMS}$	14	21	25	28	32	35	42	Volts
Maximum DC blocking voltage	$V_{DC}$	20	30	35	40	45	50	60	Volts
Maximum average forward rectified current at (See Fig. 1)	$I_{(AV)}$	16							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	150							Amps
Maximum instantaneous forward voltage IF=16A (NOTE 2)	$V_F$	0.66					0.73		Volts
Maximum instantaneous reverse current at rated DC blocking voltage (NOTE 2)	$I_R$					300			$\mu A$
						20			mA
Typical thermal resistance (NOTE 1)	$R_{th-JC}$	3.0							°C/W
Operating temperature range	$T_J$	-65to+175							°C
Storage temperature range	$T_{Stg}$	-65to+175							°C

#### NOTES:

- (1) Thermal resistance from junction to case  
 (2) Pulse test : 300 us pulse width, 1% duty cycle

# RATINGS AND CHARACTERISTIC CURVES SRF16H20 THRU SRF16H60

FIG.1 - TYPICAL FORWARD CURRENT DERATING CURVE

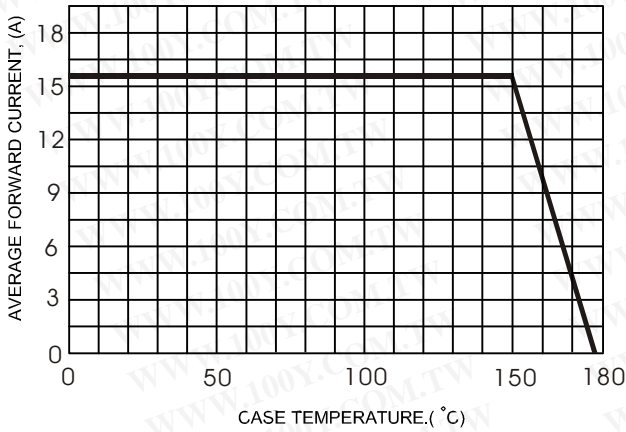
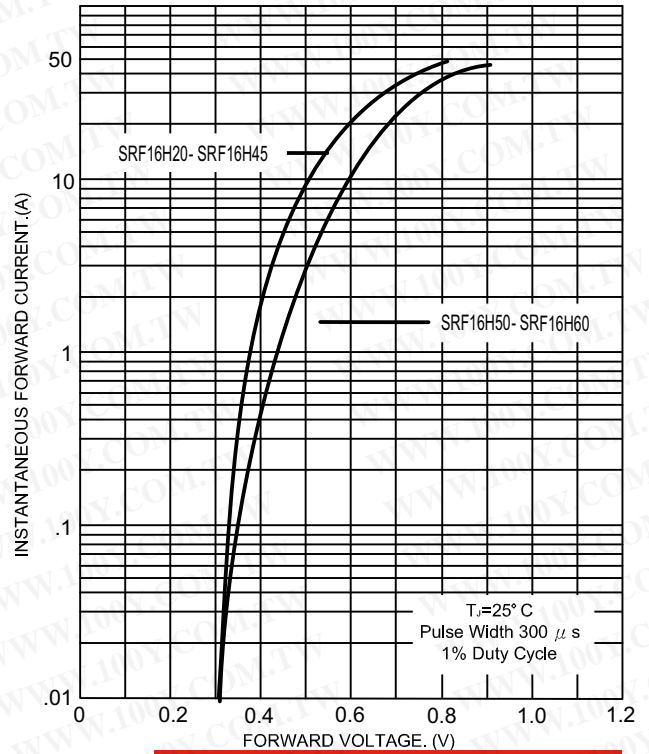


FIG.2 - TYPICAL FORWARD CHARACTERISTICS



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FIG.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

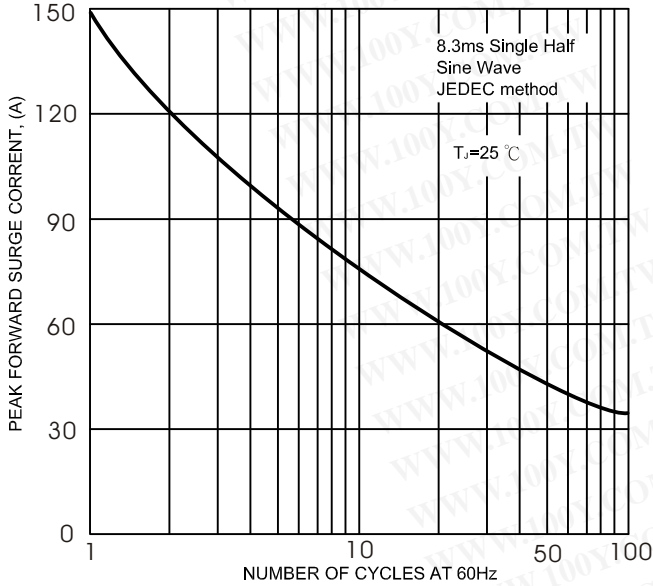


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

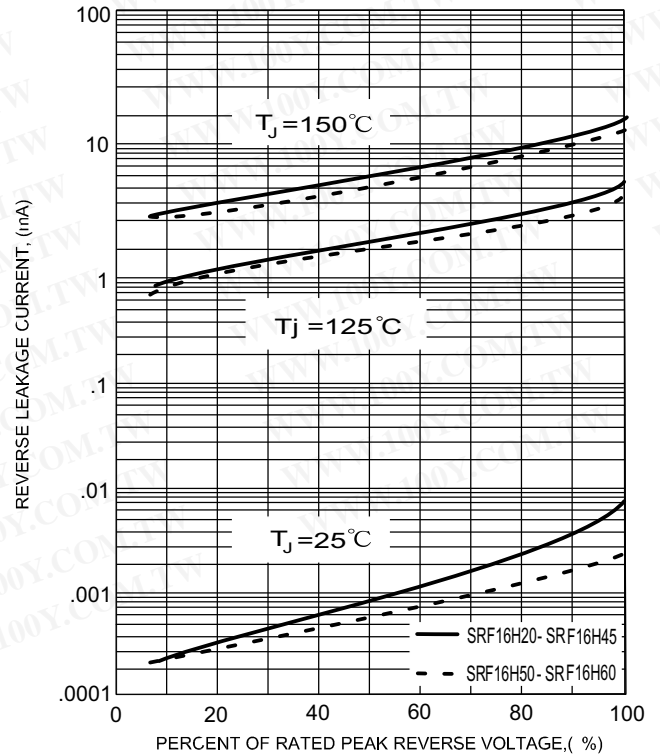


FIG.4 - TYPICAL JUNCTION CAPACITANCE

