

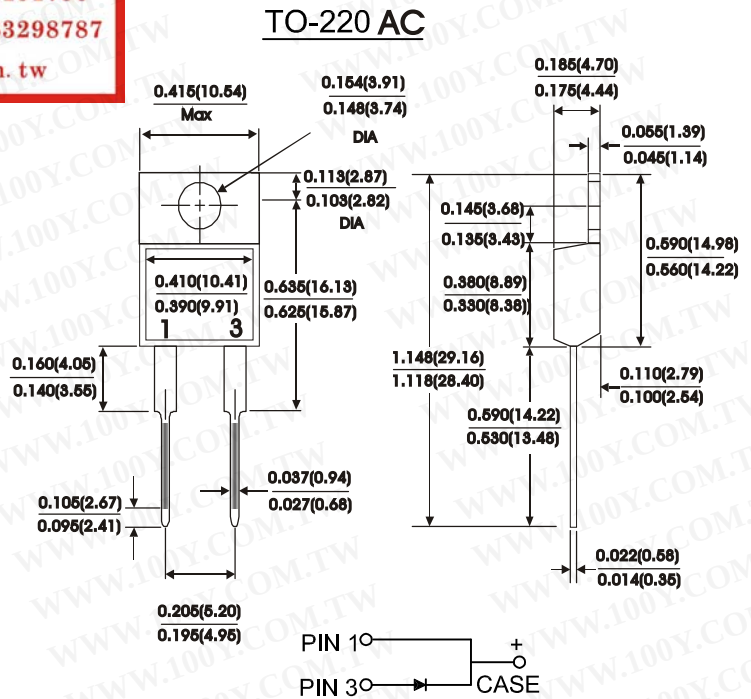
勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

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 TO-220AC molded plastic
 Terminals : Leads solderable per MIL-STD-750
 Method 2026
 Polarity : As marked
 Mounting Position : 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	SR 16H20	SR 16H30	SR 16H35	SR 16H40	SR 16H45	SR 16H50	SR 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 _O	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 (NOTE 2) IF=16A	V _F	0.66					0.73		Volts
Maximum instantaneous reverse current at rated DC blocking voltage (NOTE 2) T _C = 25°C T _C =125°C	I _R	300 20							µA mA
Typical thermal resistance (NOTE 1)	R _{th} -JC	1.5							°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 SR16H20 THRU SR16H60

FIG.1 - TYPICAL FORWARD CURRENT DERATING CURVE

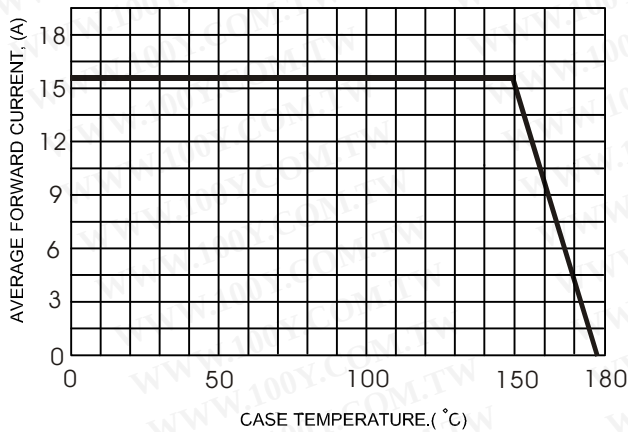
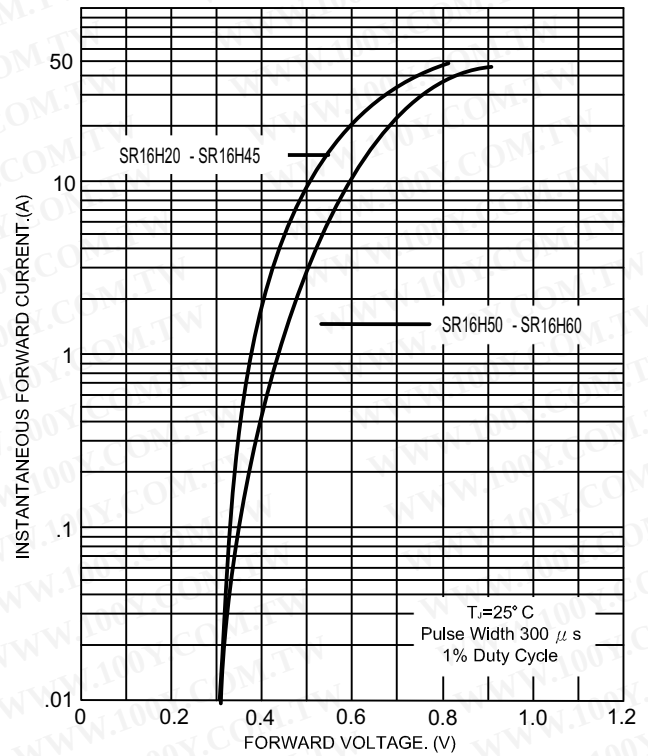


FIG.2 - TYPICAL FORWARD CHARACTERISTICS



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FIG.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

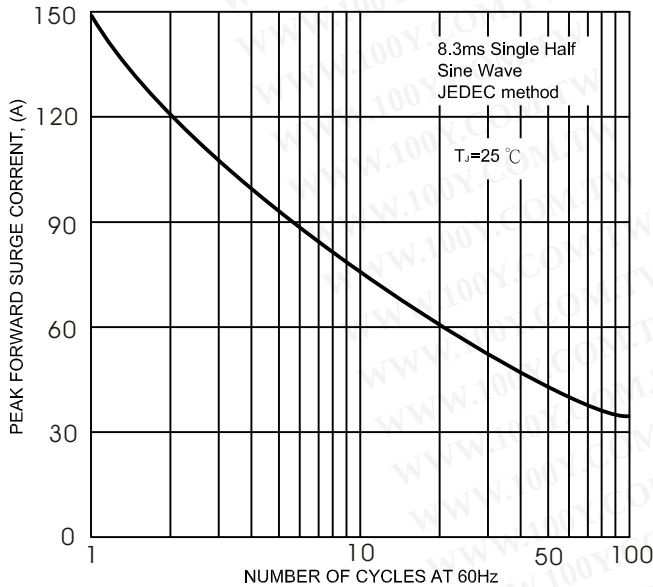


FIG.4- TYPICAL JUNCTION CAPACITANCE

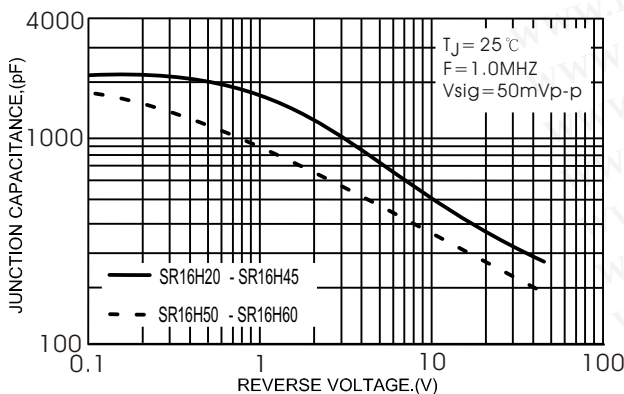


FIG.5- TYPICAL REVERSE CHARACTERISTICS

