

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)

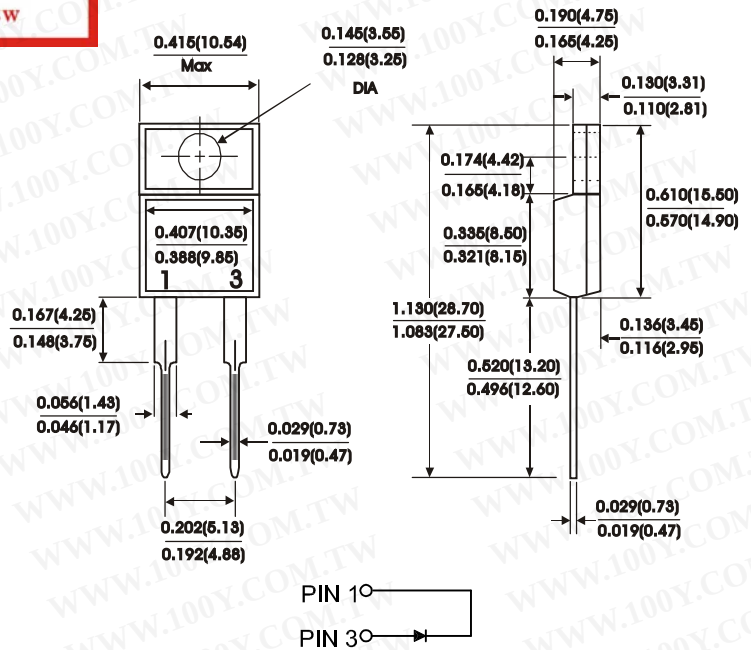
FEATURES:

- 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 ITO-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

ITO-220AC



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	SRF7H20	SRF7H30	SRF7H35	SRF7H40	SRF7H45	SRF7H50	SRF7H60	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}	7.5							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) $I_F=7.5A$	V_F	0.63					0.73		Volts
Maximum instantaneous reverse current at rated DC blocking voltage (NOTE 2) $T_C=25^{\circ}C$ $T_C=125^{\circ}C$	I_R	50 10							μA mA
Typical thermal resistance (NOTE 1)	R_{th-JC}	5.0							$^{\circ}C/W$
Operating temperature range	T_J	-65to+175							$^{\circ}C$
Storage temperature range	T_{Stg}	-65to+175							$^{\circ}C$

NOTES:

(1) Thermal resistance from junction to case

(2) Pulse test: 300 μs pulse width, 1% duty cycle

RATINGS AND CHARACTERISTIC CURVES SRF 7H20 THRU SRF 7H60

FIG.1 - TYPICAL FORWARD CURRENT DERATING CURVE

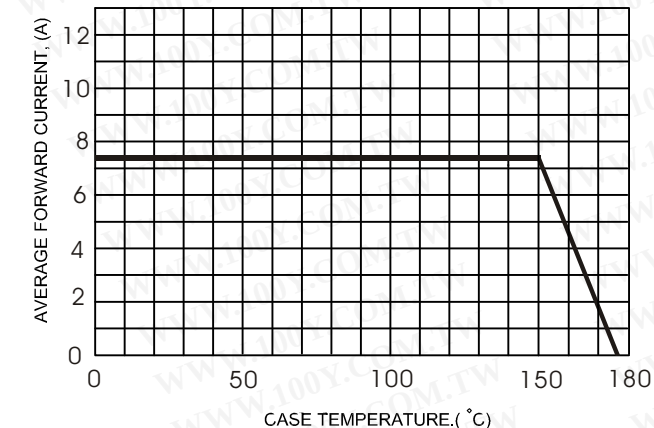


FIG.2 - TYPICAL FORWARD CHARACTERISTICS

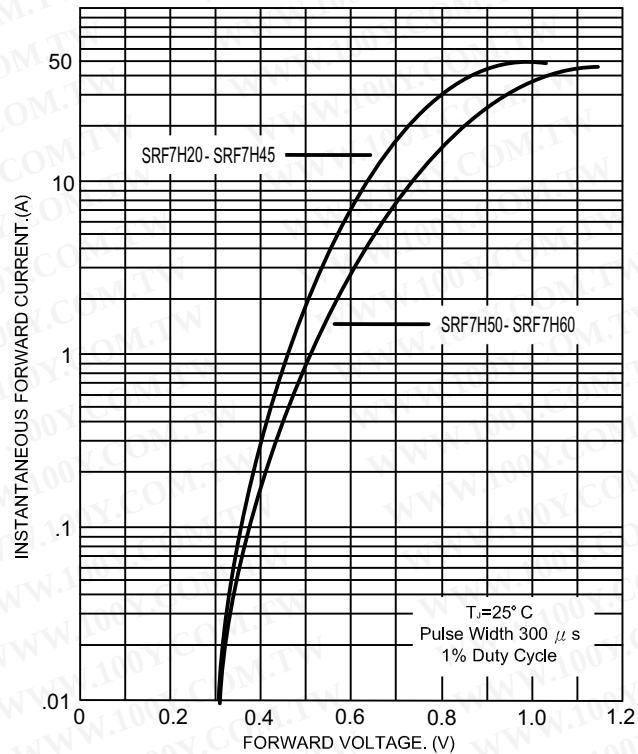
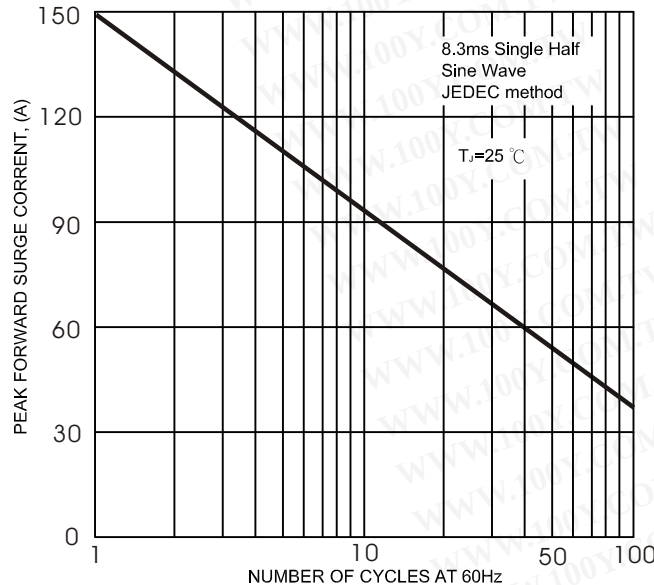


FIG.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



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FIG.5- TYPICAL REVERSE CHARACTERISTICS

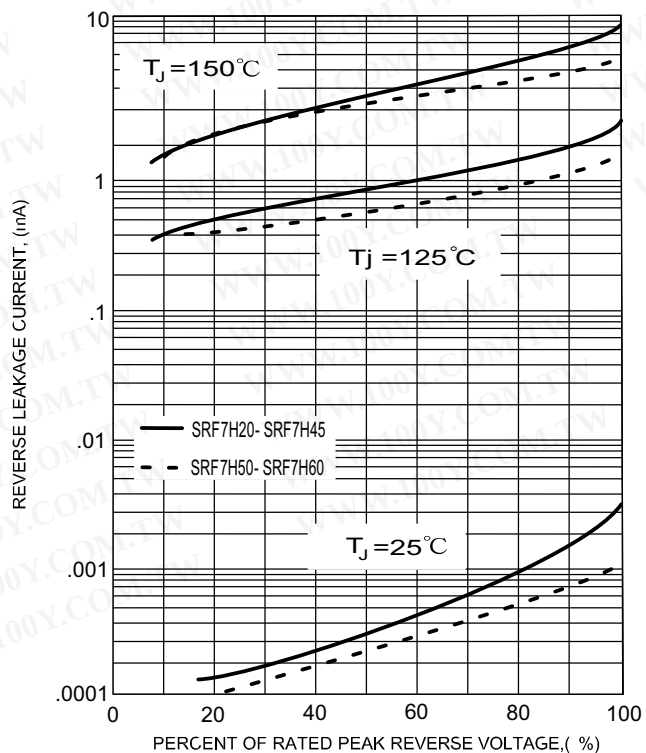


FIG.4- TYPICAL JUNCTION CAPACITANCE

