

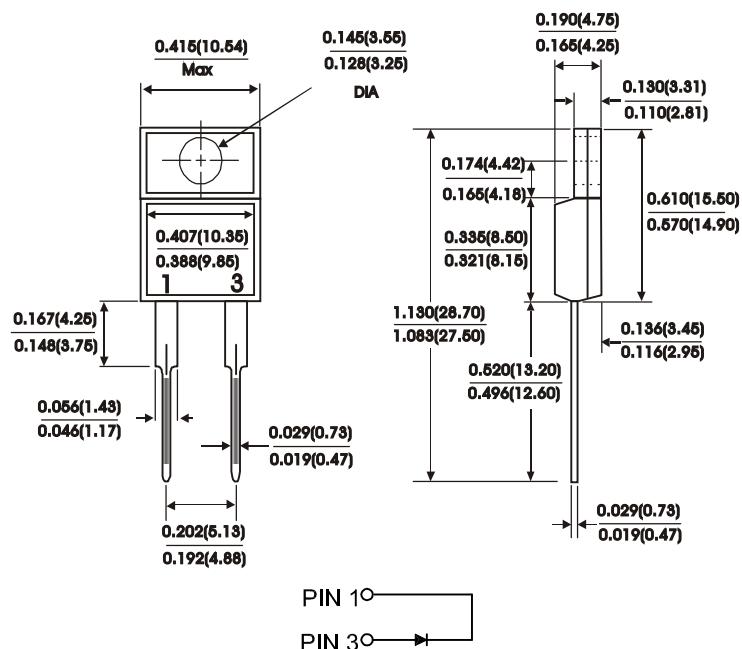
ITO-220AC

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 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	SRF1020	SRF1030	SRF1035	SRF1040	SRF1045	SRF1050	SRF1060	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)	10						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=10A (NOTE 2) IF=20A	V _F	0.63			0.80			Volts	
0.84		0.95							
Maximum instantaneous reverse current at rated DC blocking voltage (NOTE 2)	I _R	0.5 15.0						mA	
Typical thermal resistance(NOTE 1)	R _{th} -JC	4.0						°C/W	
Operating temperature range	T _J	-65 to +150						°C	
Storage temperature range	T _{Stg}	-65 to +175						°C	

NOTES:

(1)Thermal resistance from junction to case

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

RATINGS AND CHARACTERISTIC CURVES SRF1020 THRU SRF1060

