

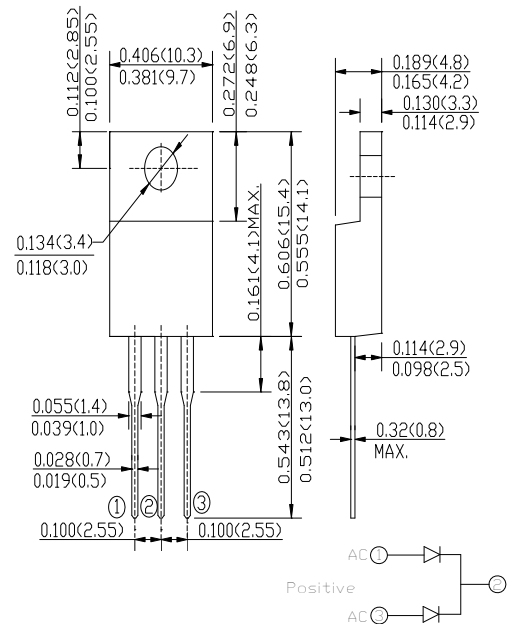
Features

- Plastic package has Underwriters Laboratory
- Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- Guard ring for over voltage protection
- Low power loss ,high efficiency
- High current capability ,Low forward voltage drop
- High surge capability
- For use in low voltage ,high frequency inverters, free wheeling ,and polarity protection applications
- Dual rectifier construction
- High temperature soldering guaranteed:250°C/10 seconds, 0.25"(6.35mm)from case

Mechanical Data

- Case: JEDEC ITO-220AB molded plastic body
- Terminals: Lead solder able per MIL-STD-750, method 2026
- Polarity: As marked. No suffix indicates Common Cathode, suffix "A" indicates Common Anode
- Mounting Position: Any
- Weight: 0.08ounce,2.24 grams

ITO-220AB



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

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

	Symbols	SR 3020 FCT	SR 3030 FCT	SR 3040 FCT	SR 3045 FCT	SR 3060 FCT	SR 3080 FCT	SR 30100 FCT	SR 30150 FCT	SR 30200 FCT	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	45	60	80	100	150	200	Volts
Maximum RMS Voltage	V_{RMS}	14	21	28	31.5	42	57	71	105	140	Volts
Maximum DC Blocking Voltage	V_{DC}	20	30	40	45	60	80	100	150	200	Volts
Maximum average forward rectified current see Fig.1	$I_{(AV)}$	30.0									Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on	I_{FSM}	200									Amp
Maximum instantaneous forward voltage at 15.0 A (Note 1)	V_F	0.65			0.75		0.85		0.90	0.95	Volts
Maximum Reverse Current $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage $T_A=125^\circ\text{C}$	I_R	0.2									mA
		20									
Typical Junction Capacitance (NOTE 3)	C_J	450			310		260		200	170	pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	1.5									$^\circ\text{C}/\text{W}$
Operating Temperature Range	T_J	-50 to +150									$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65 to +150									

NOTES:

1. Pulse test: 300μs pulse width, 1% duty cycle
2. Thermal resistance from junction to case
3. Measured at 1.0MHZ and applied reverse voltage of 4.0V DC

RATINGS AND CHARACTERISTIC CURVES

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

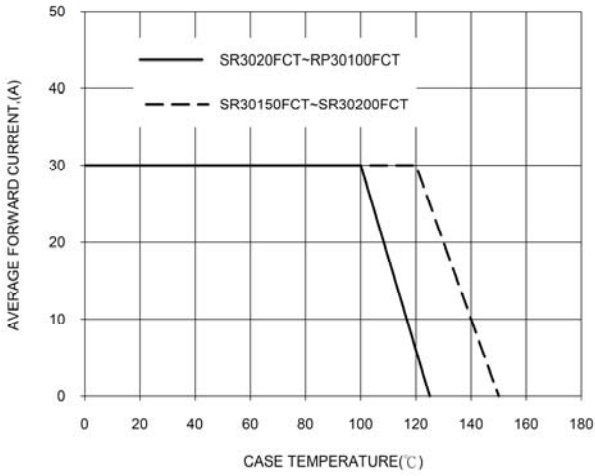


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

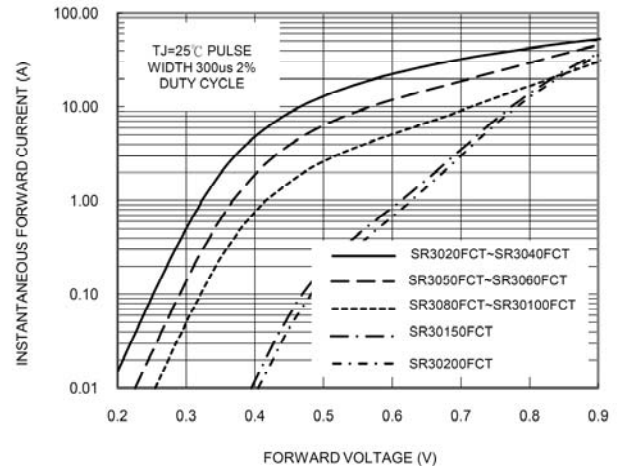


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

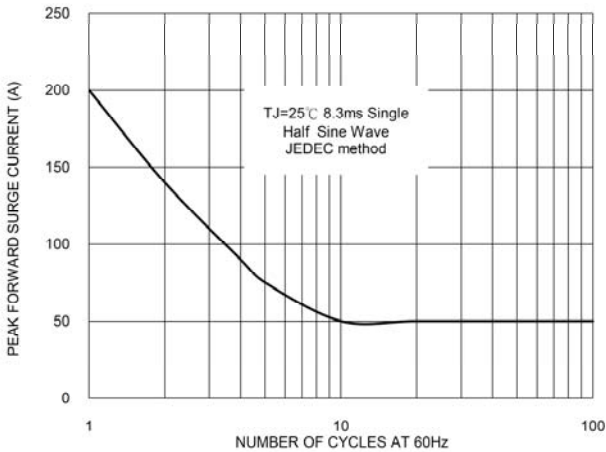


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

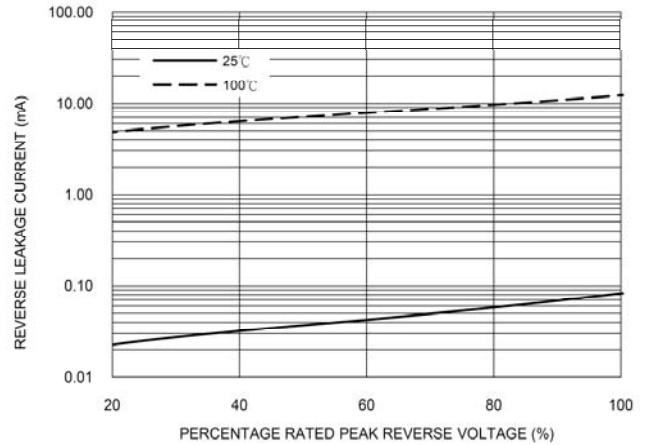


FIG. 5-TYPICAL JUNCTION CAPACITANCE

