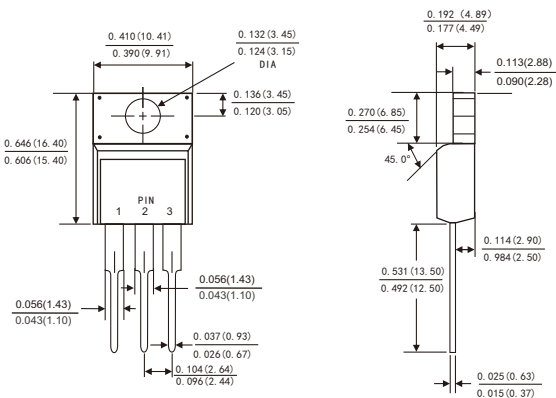


FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- Guard ring for overvoltage protection
- Low power loss ,high efficiency
- High current capability ,Low forward voltage drop
- Single rectifier construction
- High surge capability
- For use in low voltage ,high frequency inverters, free wheeling ,and polarity protection applications
- High temperature soldering guaranteed:260 °C/10 seconds, 0.25"(6.35mm)from case
- Component in accordance to RoHS 2011/65/EU



ITO-220AB



MECHANICAL DATA

- Case: JEDEC ITO-220AB molded plastic body
- Terminals: Lead solderable per MIL-STD-750,method 2026
- Polarity: As marked
- Mounting Position: Any

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Parameters	Symbols	SRF3045CT	SRF3060CT	SRF30100CT	SRF30150CT	SRF30200CT	Units
Maximum repetitive peak reverse voltage	VRRM	45	60	100	150	200	Volts
Maximum RMS voltage	VRMS	32	42	70	105	140	Volts
Maximum DC blocking voltage	VDC	45	60	100	150	200	Volts
Maximum average forward rectified current See Fig. 1	Per leg Total device	15.0 30.0					Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	250.0					Amps
Maximum instantaneous forward voltage at 8.0 A	VF	0.60	0.75	0.85	0.90	0.95	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	TA=25°C	100					μ A
	TA=100°C	5					mA
	TA=125°C	-					mA
Typical thermal resistance (Note 2)	RθJC	4.5					°C/W
Operating junction temperature range	TJ	-55 to+150					°C
Storage temperature range	TSTG	-55 to+150					°C

Notes: 1.Pulse test: 300 μ s pulse width,1% duty cycle

2.Thermal resistance from junction to case

RATINGS AND CHARACTERISTIC CURVES SRF3045CT THRU SRF30200CT

FIG.1-FORWARD CURRENT DERATING CURVE

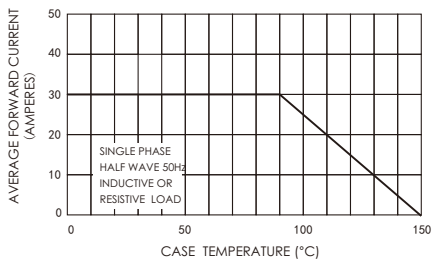


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER DIODE

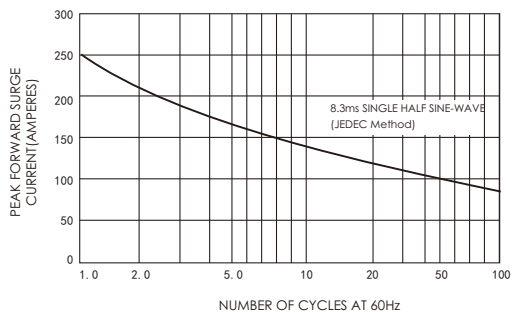


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

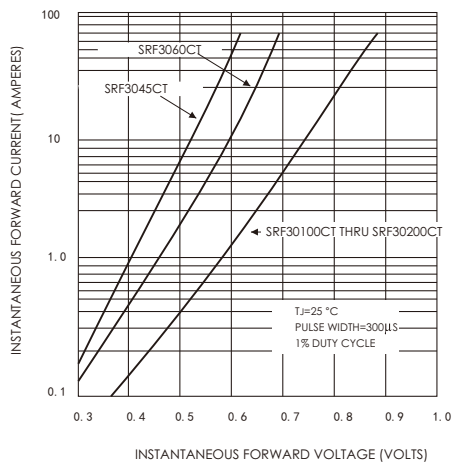


FIG.4-TYPICAL REVERSE CHARACTERISTICS

