

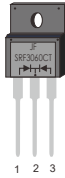
SRF3020CT THRU SRF30200CT



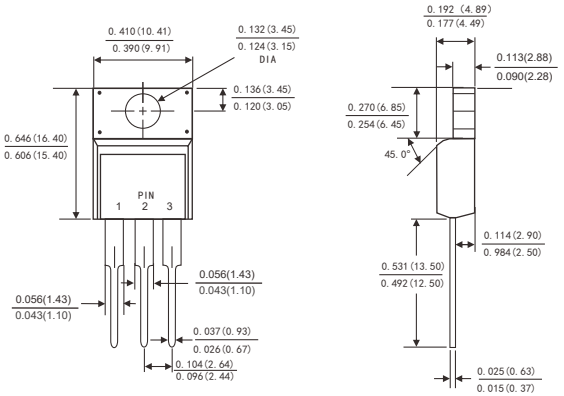
SCHOTTKY BARRIER RECTIFIER
Reverse Voltage - 20 to 200 Volts
Forward Current - 30Amperes

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 2015/863/EU



ITO-220AB



Dimensions in inches and (millimeters)

MECHANICAL DATA

- Case: JEDEC ITO-220AB molded plastic body
- Terminals: Lead solderable per MIL-STD-750,method 2026
- Polarity: As marked
- Mounting Position: Any
- Mounting Torque: 10 in-lbs maximum

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%.)

Parameter	Symbols	SRF 3020CT	SRF 3030CT	SRF 3040CT	SRF 3045CT	SRF 3060CT	SRF 30100CT	SRF 30150CT	SRF 30200CT	Units
Maximum repetitive peak reverse voltage	VRRM	20	30	40	45	60	100	150	200	Volts
Maximum RMS voltage	VRMS	14	21	28	32	42	70	105	140	Volts
Maximum DC blocking voltage	VDC	20	30	40	45	60	100	150	200	Volts
Maximum average forward rectified current(see Fig.1)	Per leg	I(AV)	15.0 30.0							Amps
	Total device									
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 15.0 A per leg	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	IR	100				20			μA
	TA=100°C		5				-			mA
	TA=125 °C		-				3			
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 μs pulse width,1% duty cycle

2.Thermal resistance from junction to case

RATINGS AND CHARACTERISTIC CURVES SRF3020CT THRU SRF30200CT

FIG.1-FORWARD CURRENT DERATING CURVE

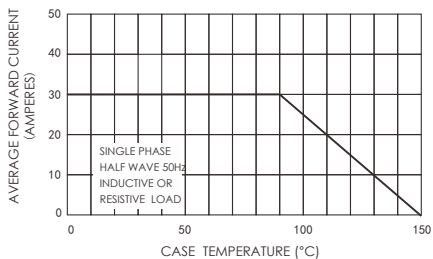


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER DIODE

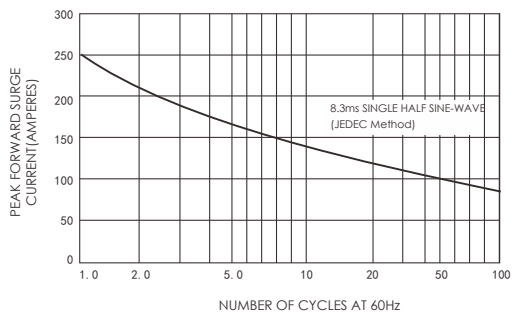


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

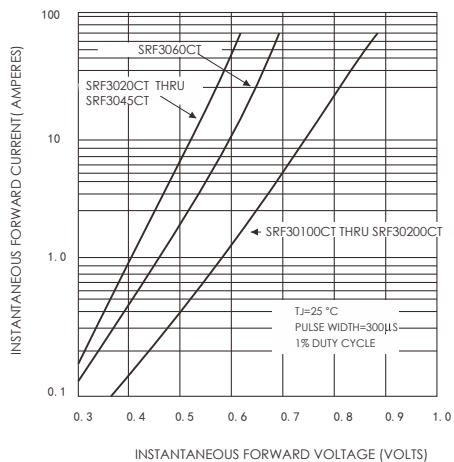
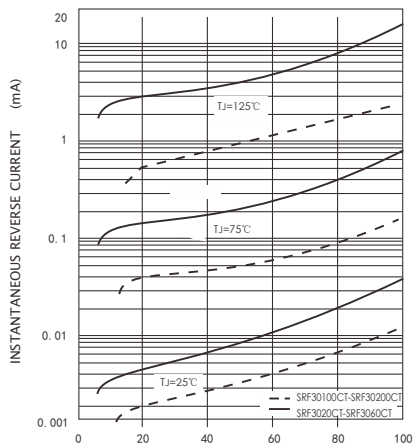


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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