

SRF1535CT THRU SRF15200CT

SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 35 to 200 Volts Forward Current - 15Amperes

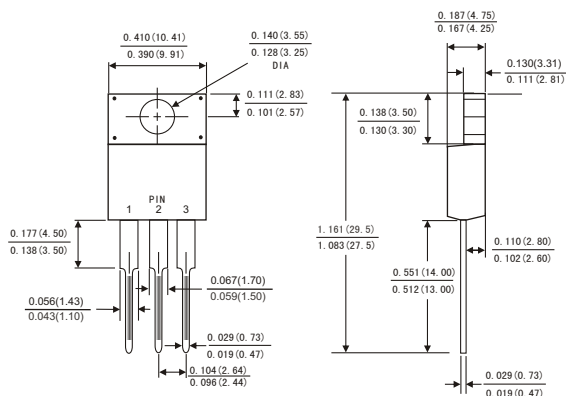


FEATURES

- 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
- High surge capability
- For use in low voltage ,high frequency inverters, free wheeling ,and polarity protection applications
- Dual rectifier construction
- High temperature soldering guaranteed:260° C/10 seconds,, 0.25"(6.35mm)from case
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC



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
- Weight: 0.08ounce, 2.24 gram

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%.)

	Symbols	SRF 1535CT	SRF 1545CT	SRF 1550CT	SRF 1560CT	SRF 15100CT	SRF 15150CT	SRF 15200CT	Units
Maximum repetitive peak reverse voltage	V _{RRM}	35	45	50	60	100	150	200	Volts
Maximum RMS voltage	V _{RMS}	25	32	35	42	70	105	140	Volts
Maximum DC blocking voltage	V _{DC}	35	45	50	60	100	150	200	Volts
Maximum average forward rectified current(see Fig.1)	Per leg	7.5							Amps
	Total device	15.0							
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	150.0							Amps
Maximum instantaneous forward voltage at 15 A	V _F	0.60		0.75	0.85	0.90	0.95		Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	T _c = 25°C	0.2							mA
	T _c = 125°C	30			50				
Typical thermal resistance (Note 2)	R _{θJC}	3.0							°C/W
Operating junction temperature range	T _J	-65 to +150							°C
Storage temperature range	T _{STG}	-65 to +150							°C

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

2.Thermal resistance from junction to case

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FIG.1-FORWARD CURRENT DERATING CURVE

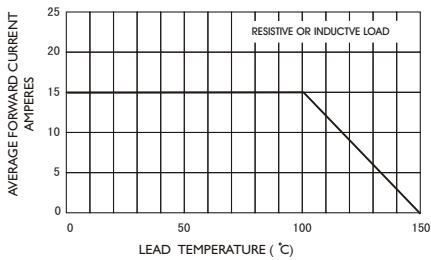


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

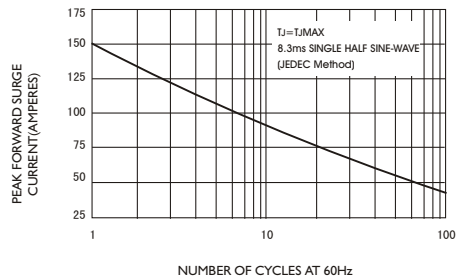


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

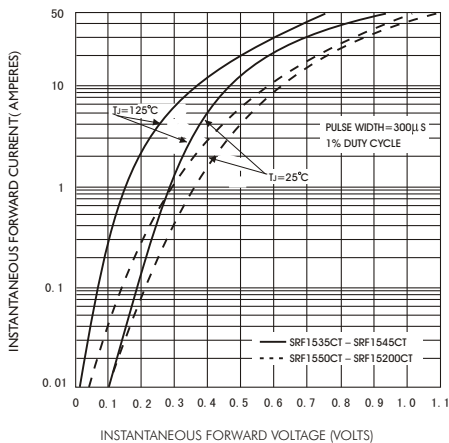


FIG.4-TYPICAL REVERSE CHARACTERISTICS

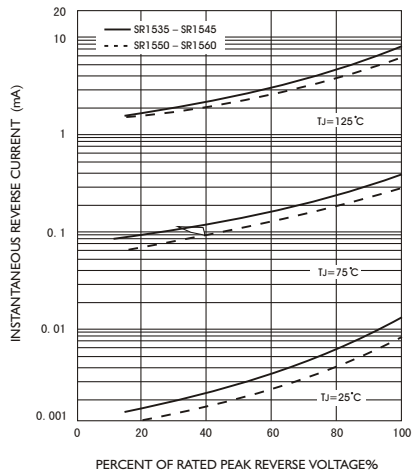


FIG.5-TYPICAL JUNCTION CAPACITANCE

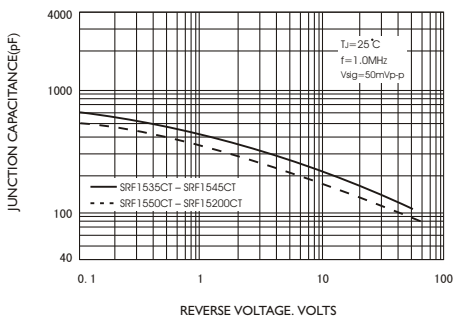


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

