

SRF10120CT

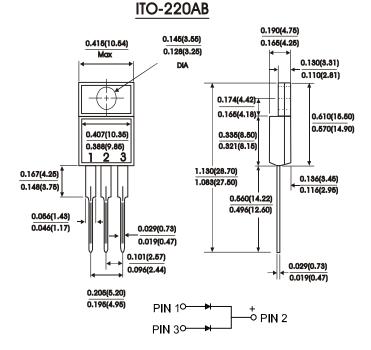
SCHOTTKY BARRIER RECTIFIER

FEATURES:

- Plastic package Underwriters Laboratory Flammability Classification 94V-0
- Dual rectifier construction, positive centertap
- Metal silicon lunction 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-220AB molded plastic Terminals : Leads solderable per MIL-STD-750 Method 2026 Polarity : As marked Mounting Position: Any Mounting Torque 5 In - Ibs.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	SRF10120CT	Units
Maximum recurrent peak reverse voltage	Vrrm	120	Volts
Maximum RMS voltage	V _{RMS}	85	Volts
Maximum DC blocking voltage	V _{DC}	120	Volts
Maximum average forward rectified current at $Tc = 90^{\circ}C$ (Per Pak)	I _(AV)	10	Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)(Per leg)	I _{FSM}	80	Amps
Maximum instantaneous forward voltage (Per leg)(NOTE 2) IF=5A	V _F	0.90	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Per leg)(NOTE 2) $Tc = 25^{\circ}C$ $Tc = 125^{\circ}C$	۱ _R	0.5 35.0	mA
Typical thermal resistance(Per leg)(NOTE 1)	R _{th} -JC	5.0	°C/W
Operating temperature range	Тj	-65to+150	°C
Storage temperature range	Tstg	-65to+150	°C

NOTES:

(1)Thermal resistance from junction to case

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

(3)Marking : <u>SRF10120C</u>T = <u>SRF10120</u> (Whitout Marking "CT") Symbol Marking



SRF10120CT

RATINGS AND CHARACTERISTIC CURVES

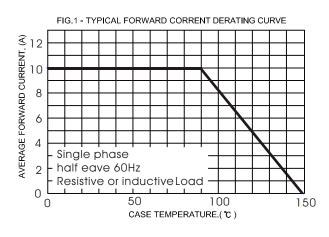
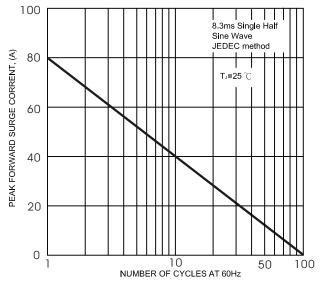
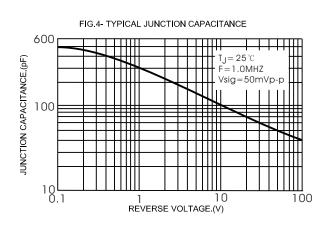
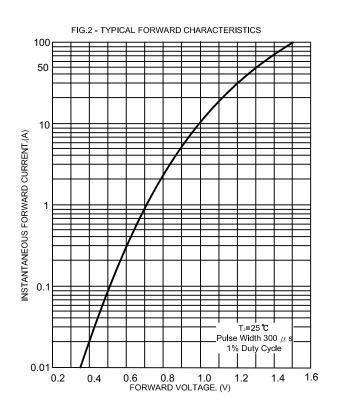
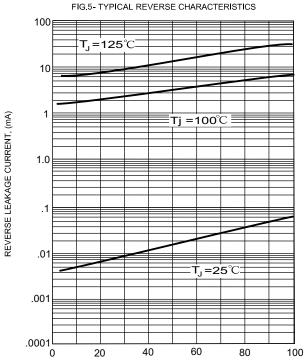


FIG.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT









PERCENT OF RATED PEAK REVERSE VOLTAGE,(%)

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