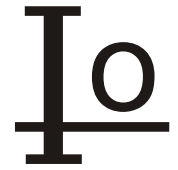


SRF2020 THRU SRF20200



20.0 AMP SCHOTTKY BARRIER RECTIFIERS

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 20011/65/ EC

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: 1.81 gram
- * Lead Free Finish/RoHS Compliant

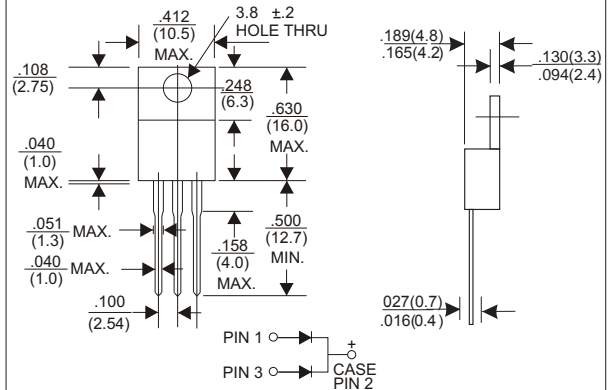
VOLTAGE RANGE

20 to200 Volts

CURRENT

20.0 Ampere

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 ,resistive or inductive load. For capacitive load, derate by 20%.)

	Symbols	SRF 2020	SRF 2030	SRF 2040	SRF 2050	SRF 2060	SRF 2080	SRF 20100	SRF 20150	SRF 20200	Units	
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	Volts	
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	56	70	105	140	Volts	
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	80	100	150	200	Volts	
Maximum average forward rectified current See Fig. 1	$I_{(AV)}$	20									Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	200									Amps	
Maximum instantaneous forward voltage at 10.0 A	V_F	0.65			0.75		0.85		0.90		0.95	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	I_R	0.5										mA
		30					50					
Typical thermal resistance (Note 2)	$R_{\theta JC}$	5.0									°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 μs pulse width,1% duty cycle

2.Thermal resistance from junction to case

RATING AND CHARACTERISTIC CURVES (SRF2020 THRU SRF20200)

FIG.1-FORWARD CURRENT DERATING CURVE

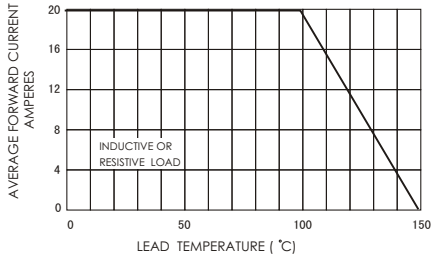


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

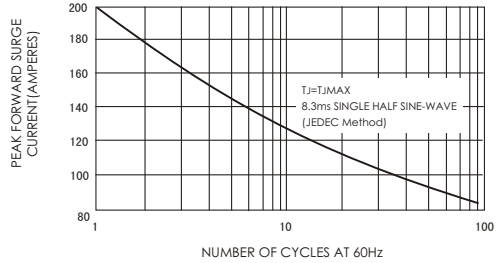


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

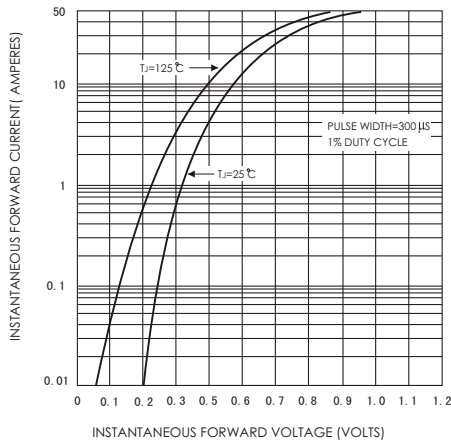


FIG.4-TYPICAL REVERSE CHARACTERISTICS

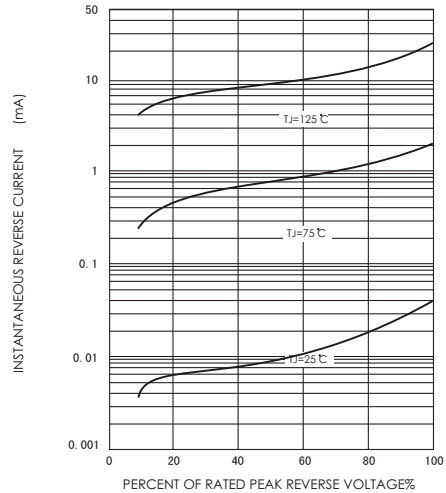


FIG.5-TYPICAL JUNCTION CAPACITANCE

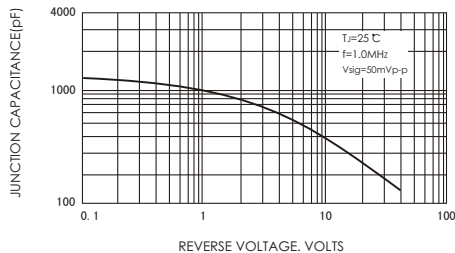


FIG.6-TYPICAL TRANSIENT PEAK THERMAL IMPEDANCE

