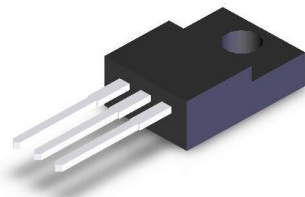


# SRF1020 THRU SRF10200

10.0 AMP SCHOTTKY BARRIER RECTIFIERS



## FEATURES

- \* Low forward voltage drop
- \* High current capability
- \* High reliability
- \* High surge current capability
- \* Epitaxial construction

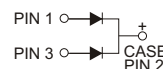
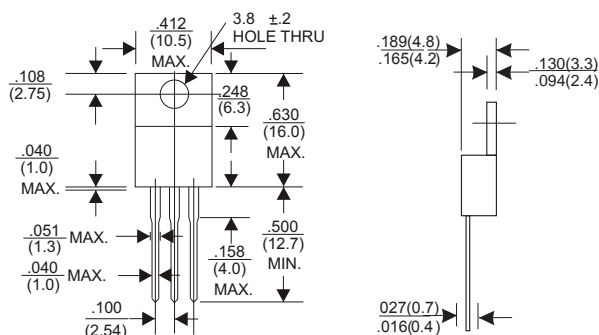
## MECHANICAL DATA

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Lead: Lead solderable per MIL-STD-202, method 208 guaranteed
- \* Polarity: As Marked
- \* Mounting position: Any
- \* Weight: 1.81 grams
- \* Lead Free Finish/RoHS Compliant

**VOLTAGE RANGE**  
20 to 200 Volts

**CURRENT**  
10.0 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 1020	SRF 1030	SRF 1040	SRF 1050	SRF 1060	SRF 1080	SRF 10100	SRF 10150	SRF 10200	Units	
Maximum repetitive peak reverse voltage	VRRM	20	30	40	50	60	80	100	150	200	Volts	
Maximum RMS voltage	VRMS	14	21	28	35	42	56	70	105	140	Volts	
Maximum DC blocking voltage	VDC	20	30	40	50	60	80	100	150	200	Volts	
Maximum average forward rectified current (see Fig.1)	I(AV)	10									Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	150									Amps	
Maximum instantaneous forward voltage at 5.0 A(Note 1 )	VF	0.65			0.75		0.85		0.90	0.95	Volts	
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	IR	0.5									mA	
		15			50							
Typical thermal resistance (Note 2)	RθJC	2.5									°C/W	
Operating junction temperature range	TJ	-65 to +125				-65 to +150						°C
Storage temperature range	TSTG	-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 (SRF1020 THRU SRF10200)

FIG.1-FORWARD CURRENT DERATING CURVE

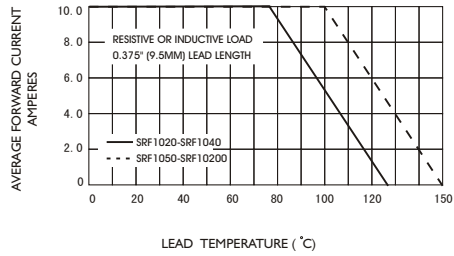


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

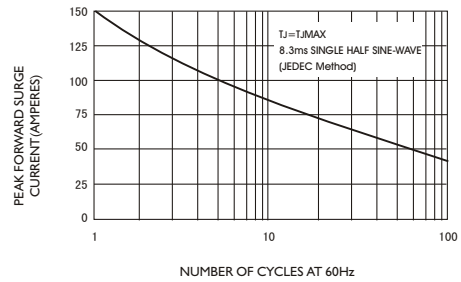


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

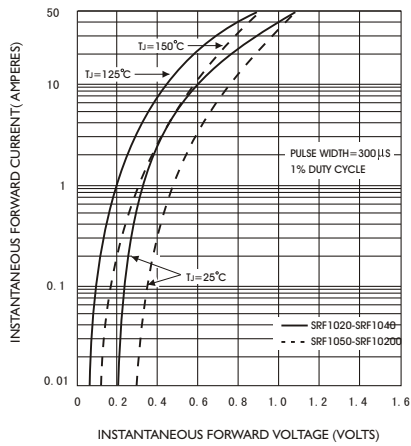


FIG.4-TYPICAL REVERSE CHARACTERISTICS

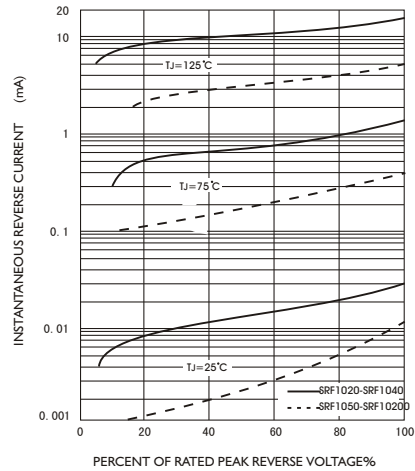


FIG.5-TYPICAL JUNCTION CAPACITANCE

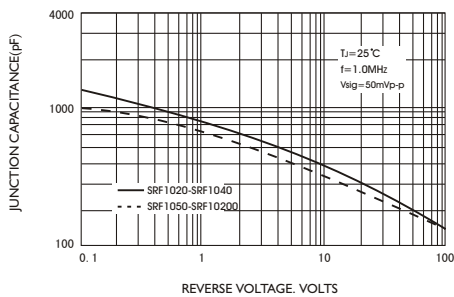


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

