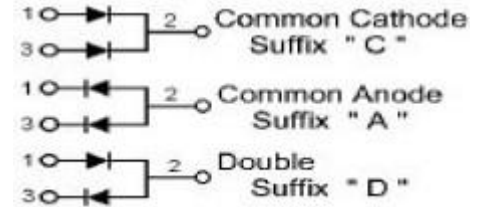




## Schottky Barrier Rectifier

### Features

- Fast switching
- Low forward voltage
- Low power loss for high efficiency
- High surge capacity
- High temperature soldering guaranteed:  
260°C/10 seconds, 0.375" (9.5mm) lead length
- Also available with reversed polarity, add an "R" suffix, i.e.SRF1020R
- Also available in a non-isolated version, i.e.SR1020
- RoHS and REACH Compliance



### Mechanical Data

<b>Case:</b>	Transfer molded plastic
<b>Polarity:</b>	As marked
<b>Epoxy:</b>	UL94V-0 rate flame retardant
<b>Lead:</b>	Solderable per MIL-STD-202E method 208C
<b>Mounting position:</b>	Any, 5 in-lbs Torque Max
<b>Weight:</b>	0.064 ounce, 1.81 gram

### Maximum Ratings ( $T_{Ambient}=25^{\circ}C$ unless noted otherwise)

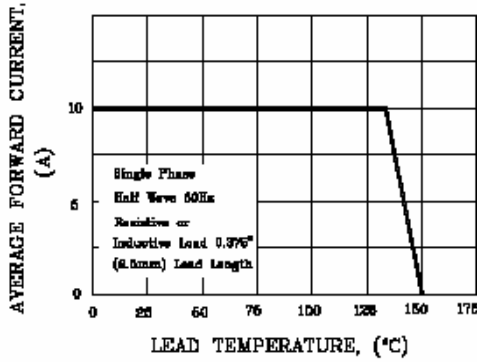
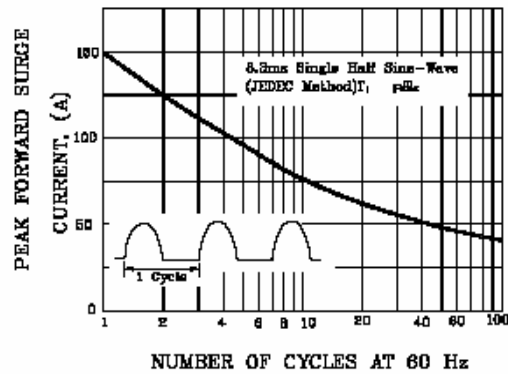
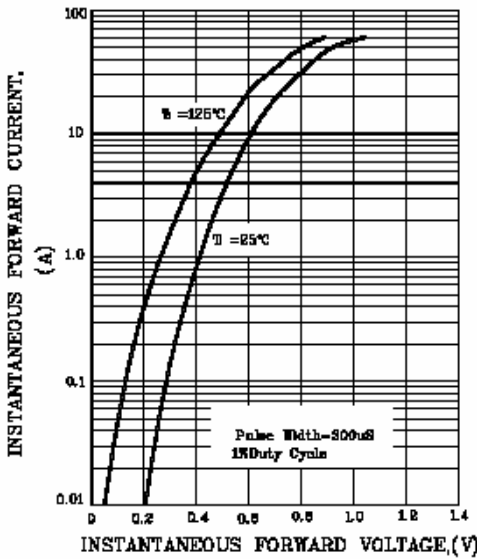
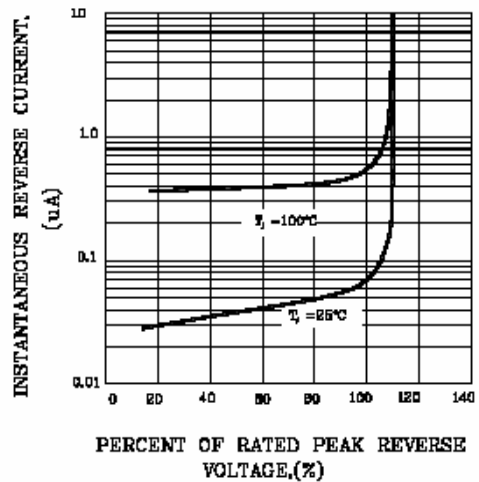
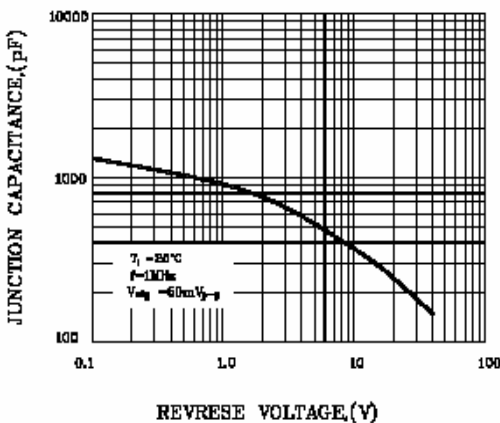
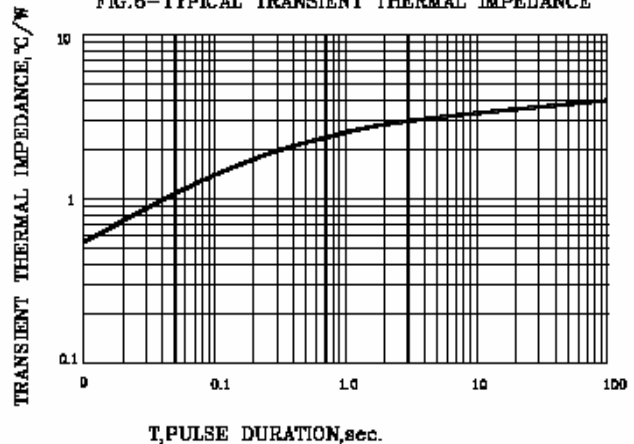
Symbol	Description	SRF 1020	SRF 1030	SRF 1035	SRF 1040	SRF 1045	SRF 1050	SRF 1060	SRF 1080	SRF 1100	Unit	Conditions
<b>VRRM</b>	Max Recurrent Peak Reverse Voltage	20	30	35	40	45	50	60	80	100	V	
<b>VRMS</b>	Max RMS Voltage	14	21	25	38	32	35	42	56	70	V	
<b>VDC</b>	Max DC Blocking Voltage	20	30	35	40	45	50	60	80	100	V	
<b>I(AV)</b>	Max Average Forward Rectified Current	10.0									A	TL=135°C Note 1
<b>IFSM</b>	Peak Forward Surge Current	150									A	JEDEC method
<b>TJ,TSTG</b>	Operating and Storage Temperature Range	-55 to +150, -55 to +150									°C	

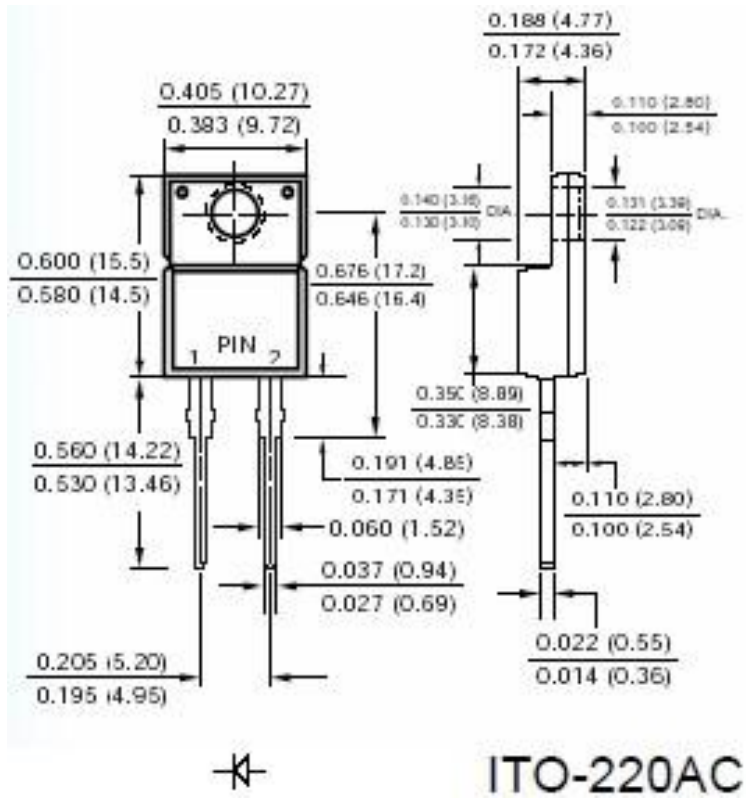
### Electrical Characteristics ( $T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	SRF 1020	SRF 1030	SRF 1035	SRF 1040	SRF 1045	SRF 1050	SRF 1060	SRF 1080	SRF 1100	Unit	Conditions
<b>VF</b>	Max Instantaneous Forward Voltage	0.65			0.75			0.85			V	10.0A Note 1
<b>IR</b>	Max DC Reverse Current at Rated DC Blocking Voltage	5.0									µA	TA=25°C
		50									mA	TA=100°C
<b>TRR</b>	Maximum reverse recovery time	100			150			200			nS	Note 1
<b>Rθ-JC</b>	Typical Thermal Resistance	3.0									°C/W	

#### Note:

1. Pulse test: 300µS pulse width, 1% duty cycle

**SRF1020 ~ SRF1100**
**RATINGS AND CHARACTERISTIC CURVES SRF1020 THRU SRF1100**
**FIG.1-TYPICAL 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**


**SRF1020 ~ SRF1100**
**Dimensions in inches (mm)**

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