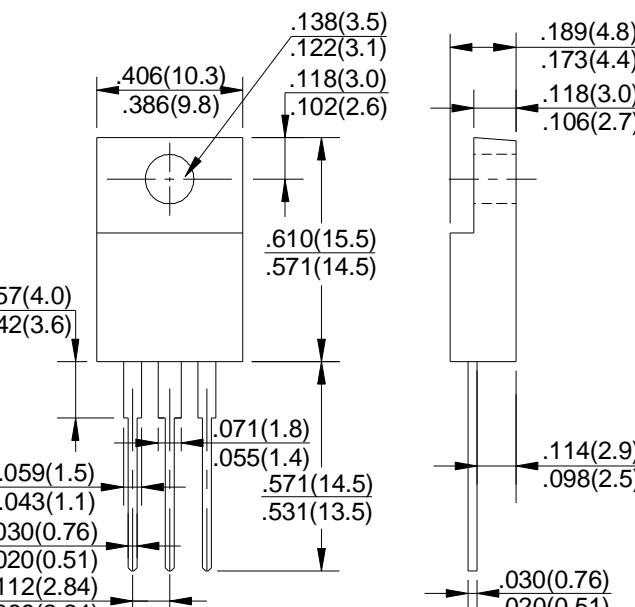


SCHOTTKY BARRIER RECTIFIERS	REVERSE VOLTAGE - 30 to 100Volts FORWARD CURRENT - 20.0 Amperes														
FEATURES	ITO-220AB														
<ul style="list-style-type: none"> ● Metal of silicon rectifier , majority carrier conduction ● Guard ring for transient protection ● Low power loss,high efficiency ● High current capability,low VF ● High surge capacity ● Plastic package has UL flammability classification 94V-0 ● For use in low voltage,high frequency inverters,free wheeling, and polarity protection applications 	 <p>The drawing shows the physical dimensions of the ITO-220AB package. The top view indicates a total width of .406(10.3) and a height of .386(9.8). The side view shows a total height of .610(15.5) and a base thickness of .571(14.5). Other dimensions include .138(3.5), .122(3.1), .118(3.0), .102(2.6), .189(4.8), .173(4.4), .118(3.0), .106(2.7), .157(4.0), .142(3.6), .071(1.8), .055(1.4), .571(14.5), .531(13.5), .059(1.5), .043(1.1), .030(0.76), .020(0.51), .112(2.84), .088(2.24), .114(2.9), .098(2.5), .030(0.76), and .020(0.51).</p>														
MECHANICAL DATA	Dimensions in inches and (millimeters)														
<ul style="list-style-type: none"> ● Case: ITO-220AB molded plastic ● Polarity: As marked on the body ● Weight: 0.08ounces,2.24 grams ● Mounting position :Any 	MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS														
<p>Rating at 25°C ambient temperature unless otherwise specified.</p> <p>Single phase, half wave ,60Hz, resistive or inductive load.</p> <p>For capacitive load, derate current by 20%</p>															
CHARACTERISTICS	SYMBOL	SR 2030F	SR 2040F	SR 2050F	SR 2060F	SR 2080F	SR 20100F	SR 20150F	UNIT						
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	30	40	50	60	80	100	150	V						
Maximum RMS Voltage	V _{RMS}	21	28	35	42	56	70	105	V						
Maximum DC Blocking Voltage	V _{DC}	30	40	50	60	80	100	150	V						
Maximum Average Forward Rectified Current (See Fig.1) @T _c =95 °C	I(AV)	20						A							
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	250						A							
Peak Forward Voltage at 10.0A DC(Note1)	V _F	0.55	0.60	0.70	0.85	0.85	0.95	V							
Maximum DC Reverse Current @T _j =25°C at Rated DC Bolcking Voltage @T _j =100°C	I _R	1.0 50						mA							
Typical Junction Capacitance (Note2)	C _J	600						pF							
Typical Thermal Resistance (Note3)	R _{θJC}	2.0						°C/W							
Operating Temperature Range	T _J	-55to+150						°C							
Storage Temperature Range	T _{STG}	-55to+150						°C							
NOTES:1.300us pulse width,2% dudy cycle.															
2.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.															
3.Thermal resistance junction to case.															

RATING AND CHARACTERISTIC CURVES

SR2030F thru SR20150F

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FIG. 1 – FORWARD CURRENT DERATING CURVE

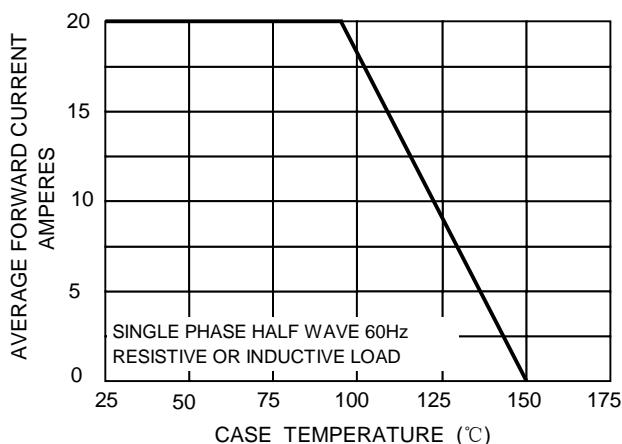


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

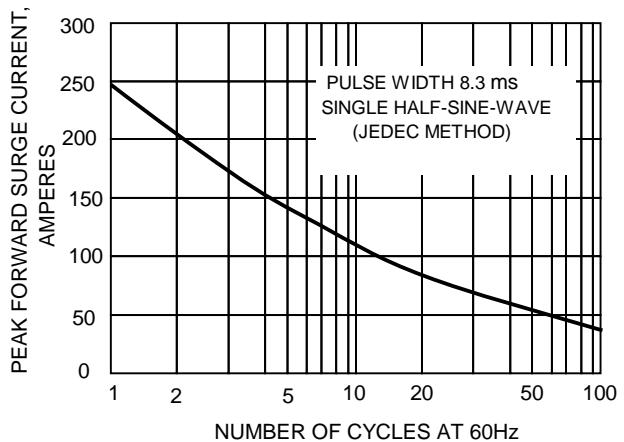


FIG.3-TYPICAL REVER CHARACTERISTICS

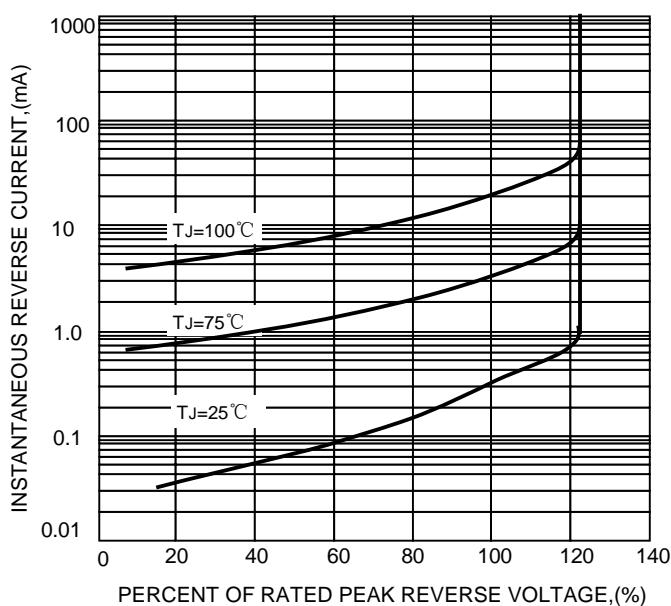


FIG.4-TYPICAL FORWARD CHARACTERISTICS

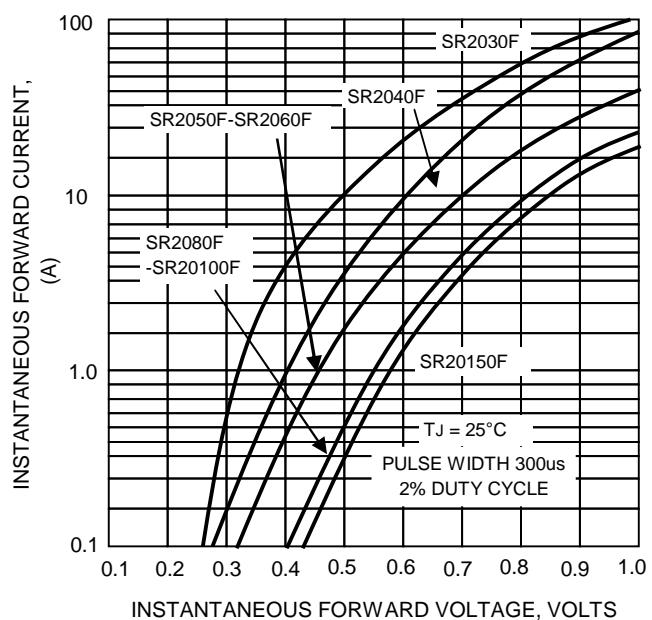


FIG.3 – TYPICAL JUNCTION CAPACITANCE

