
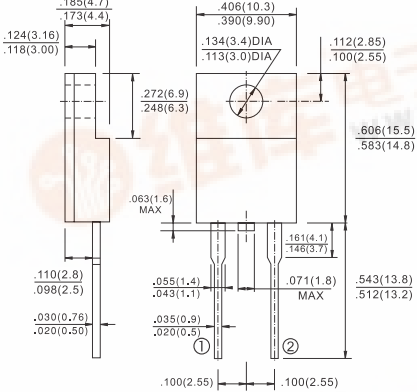
	<h2 style="margin: 0;">SRAF820 THRU SRAF8100</h2> <h3 style="margin: 0;">Isolation 8.0 AMPS. Schottky Barrier Rectifiers</h3>									
			<p>Voltage Range 20 to 100 Volts</p> <p>Current 8.0 Amperes</p>							
<p>Features</p> <ul style="list-style-type: none"> ✦ Low forward voltage drop ✦ High current capability ✦ High reliability ✦ High surge current capability <p>Mechanical Data</p> <ul style="list-style-type: none"> ✦ Cases: ITO-220AC molded plastic ✦ Epoxy: UL 94V-O rate flame retardant ✦ Terminals: Leads solderable per MIL-STD-202, Method 208 guaranteed ✦ Polarity: As marked ✦ High temperature soldering guaranteed: 260°C/10 seconds/.25", (6.35mm) from case. ✦ Weight: 2.24 grams 			<p style="text-align: center;">ITO-220AC</p>  <p style="text-align: center;">Dimensions in inches and (millimeters)</p>							
<p>Maximum Ratings and Electrical Characteristics</p> <p>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%</p>										
<p>Type Number</p>	<p>Symbol</p>	<p>SRAF 820</p>	<p>SRAF 830</p>	<p>SRAF 840</p>	<p>SRAF 850</p>	<p>SRAF 860</p>	<p>SRAF 890</p>	<p>SRAF 8100</p>	<p>Units</p>	
<p>Maximum Recurrent Peak Reverse Voltage</p>	<p>V_{RRM}</p>	<p>20</p>	<p>30</p>	<p>40</p>	<p>50</p>	<p>60</p>	<p>90</p>	<p>100</p>	<p>V</p>	
<p>Maximum RMS Voltage</p>	<p>V_{RMS}</p>	<p>14</p>	<p>21</p>	<p>28</p>	<p>35</p>	<p>42</p>	<p>63</p>	<p>70</p>	<p>V</p>	
<p>Maximum DC Blocking Voltage</p>	<p>V_{DC}</p>	<p>20</p>	<p>30</p>	<p>40</p>	<p>50</p>	<p>60</p>	<p>90</p>	<p>100</p>	<p>V</p>	
<p>Maximum Average Forward Rectified Current See Fig. 1</p>	<p>$I_{(AV)}$</p>	<p>8.0</p>							<p>A</p>	
<p>Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)</p>	<p>I_{FSM}</p>	<p>150</p>							<p>A</p>	
<p>Maximum Instantaneous Forward Voltage @8.0A</p>	<p>V_F</p>	<p>0.55</p>			<p>0.70</p>		<p>0.75</p>		<p>V</p>	
<p>Maximum D.C. Reverse Current @ $T_c=25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_c=100^\circ\text{C}$</p>	<p>I_R</p>	<p>0.5</p>				<p>50</p>				<p>mA mA</p>
<p>Typical Thermal Resistance (Note 1)</p>	<p>$R_{\theta_{JC}}$</p>	<p>5.0</p>								<p>°C/W</p>
<p>Typical Junction Capacitance (Note 2)</p>	<p>C_j</p>	<p>430</p>			<p>360</p>				<p>pF</p>	
<p>Operating Junction Temperature Range</p>	<p>T_J</p>	<p>-65 to +125</p>			<p>-65 to +150</p>				<p>°C</p>	
<p>Storage Temperature Range</p>	<p>T_{STG}</p>	<p>-65 to +150</p>								<p>°C</p>

Notes: 1. Thermal Resistance from Junction to Case Per Leg with Heat sink (2"x3"x0.25") Al-Plate.
2. Measured at 1MHz and Applied Reverse Voltage of 4.0V D.C.



RATINGS AND CHARACTERISTIC CURVES (SRAF820 THRU SRAF8100)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

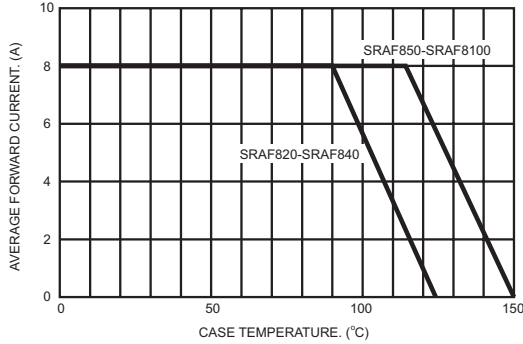


FIG.2- TYPICAL REVERSE CHARACTERISTICS

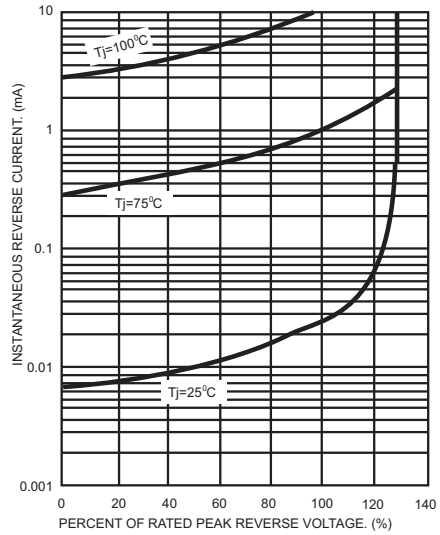


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

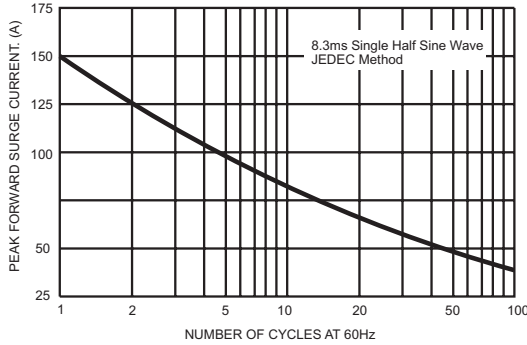


FIG.5- TYPICAL FORWARD CHARACTERISTICS

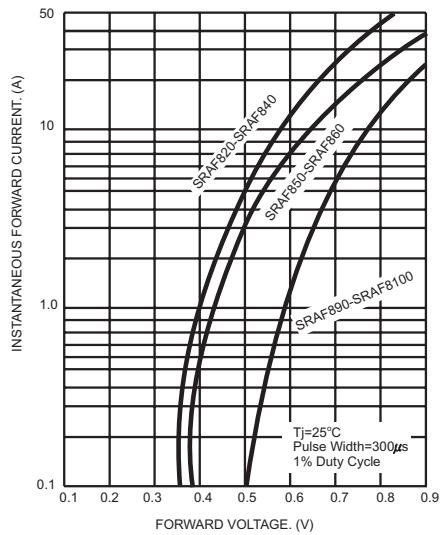


FIG.4- TYPICAL JUNCTION CAPACITANCE

