

## GENERAL PURPOSE SILICON RECTIFIER

<p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>• Low cost construction</li> <li>• Low forward voltage drop</li> <li>• Low reverse leakage</li> <li>• High forward surge current capability</li> <li>• High temperature soldering guaranteed: 260°C/10 seconds/0.375" (9.5mm) lead length at 5 lbs (2,3kg) tension</li> </ul> <p><b>MECHANICAL DATA</b></p> <ul style="list-style-type: none"> <li>• <b>Case:</b> Transfer molded plastic</li> <li>• <b>Epoxy:</b> UL94V-0 rate flame retardant</li> <li>• <b>Polarity:</b> Color band denotes cathode end</li> <li>• <b>Lead:</b> Plated axial lead, solderable per MIL-STD-202E method 208C</li> <li>• <b>Mounting position:</b> Any</li> <li>• <b>Weight:</b> 0.07 ounce, 2.0 grams</li> </ul>	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center; border: none;"> <b>VOLTAGE RANGE</b> 50 to 1000 Volts <b>CURRENT</b> 6.0 Amperes             </td> <td style="text-align: right; border: none;"> <b>R-6</b> </td> </tr> </table> <p style="text-align: center; font-size: small;">Dimensions in inches and (millimeters)</p>	<b>VOLTAGE RANGE</b> 50 to 1000 Volts <b>CURRENT</b> 6.0 Amperes	<b>R-6</b>																																																																																																																														
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<p><b>MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS</b></p> <p>Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load derate current by 20%.</p>																																																																																																																																	
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<p><b>NOTES:</b></p> <p>1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts. 2. Thermal Resistance from Junction to Ambient at 0.375" (9.5mm) lead length, P.C. board mounted with 1.1" X1.1" (30X30mm) copper heatsink.</p>																																																																																																																																	

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

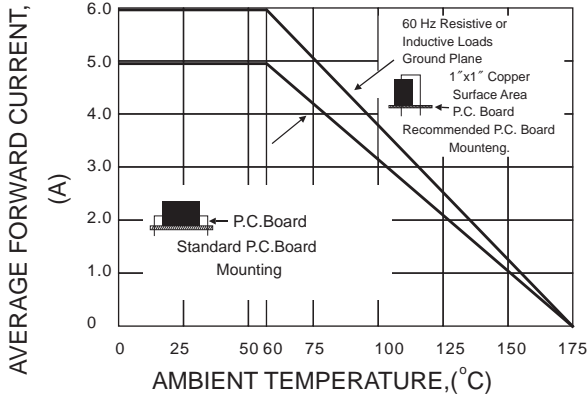


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

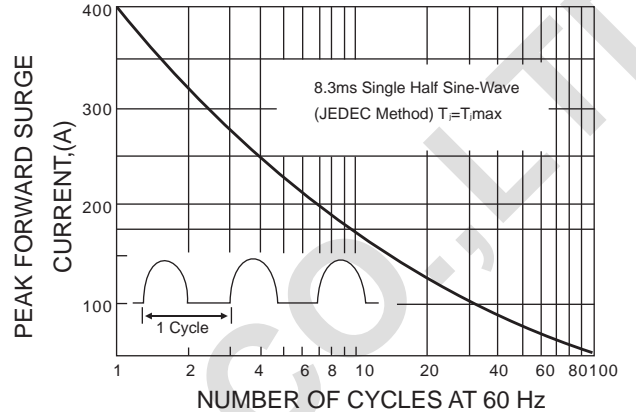


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

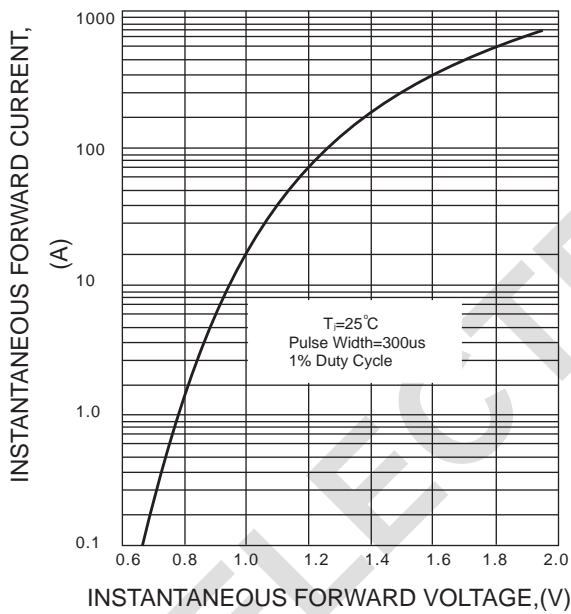


FIG.4-TYPICAL REVERSE CHARACTERISTICS

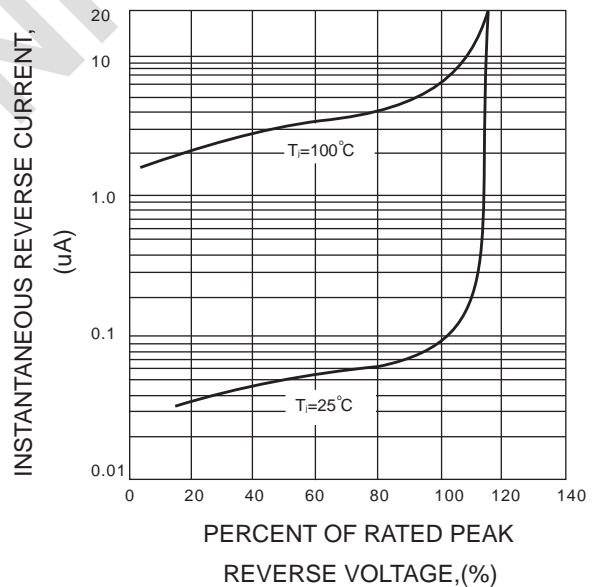


FIG.5-TYPICAL JUNCTION CAPACITANCE

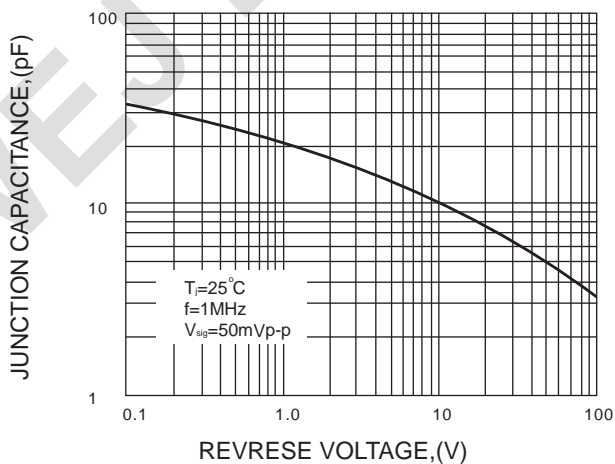


FIG.6-TYPICAL THERMAL RESISTANCE VS LEAD LENGTH

