MUR210 THRU MUR280
2.0 AMP HIGH EFFICIENCY RECTIFIERS

FEATURES
* Low forward voltage drop
* High current capability
* High reliability
* High surge current capability
* High speed switching

MECHANICAL DATA
* Case: Molded plastic
* Epoxy: UL 94V-0 rate flame retardant
* Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
* Polarity: Color band denotes cathode end
* Mounting position: Any
* Weight: 0.35 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS
Rating 25°C ambient temperature unless otherwise specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

<table>
<thead>
<tr>
<th>TYPE NUMBER</th>
<th>MUR210</th>
<th>MUR220</th>
<th>MUR230</th>
<th>MUR240</th>
<th>MUR250</th>
<th>MUR260</th>
<th>MUR270</th>
<th>MUR280</th>
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<tbody>
<tr>
<td>Maximum Recurrent Peak Reverse Voltage</td>
<td>50</td>
<td>100</td>
<td>200</td>
<td>300</td>
<td>400</td>
<td>600</td>
<td>800</td>
<td>1000</td>
</tr>
<tr>
<td>Maximum RMS Voltage</td>
<td>35</td>
<td>70</td>
<td>140</td>
<td>210</td>
<td>280</td>
<td>420</td>
<td>560</td>
<td>700</td>
</tr>
<tr>
<td>Maximum DC Blocking Voltage</td>
<td>50</td>
<td>100</td>
<td>200</td>
<td>300</td>
<td>400</td>
<td>600</td>
<td>800</td>
<td>1000</td>
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Maximum Average Forward Rectified Current
.375"(9.5mm) Lead Length at Ta=50°C

Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)

Maximum Instantaneous Forward Voltage at 2.0A

Maximum DC Reverse Current

at Rated DC Blocking Voltage

Maximum Reverse Recovery Time (Note 1)

Typical Junction Capacitance (Note 2)

Operating and Storage Temperature Range Ta, TaG

NOTES:
1. Reverse Recovery Time test condition: IF=0.5A, IR=1.0A, IRR=0.25A
2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
RATING AND CHARACTERISTIC CURVES (MUR210 THRU MUR280)

FIG.1-TYPICAL FORWARD CHARACTERISTICS

FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

FIG.3-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS

FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

FIG.5-TYPICAL JUNCTION CAPACITANCE

NOTES: 1. Rise Time= 7ns max., Input Impedance= 1 megohm, 22pF.
2. Rise Time= 10ns max., Source Impedance= 50 ohms.