RS1A THRU RS1M
SURFACE MOUNT FAST RECOVERY RECTIFIER
Reverse Voltage-50 to 1000Volts Forward Current-1.0Ampere

FEATURES
The plastic package carries Underwriters Laboratory
Flammability Classification 94V-0
For surface mounted applications
Fast switching for high efficiency
Low reverse leakage
Built-in strain relief, ideal for automated placement
High forward surge current capability
High temperature soldering guaranteed:
250°C/10 seconds at terminals

MECHANICAL DATA
Case: JEDEC DO-214AC molded plastic body
Terminals: Solder plated, solderable per MIL-STD-750,
Method 2026
Polarity: Color band denotes cathode end
Mounting Position: Any

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

<table>
<thead>
<tr>
<th>SYMBOLS</th>
<th>RS1A</th>
<th>RS1B</th>
<th>RS1D</th>
<th>RS1G</th>
<th>RS1J</th>
<th>RS1K</th>
<th>RS1M</th>
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<td>600</td>
<td>800</td>
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Dimensions in inches and (millimeters)

Note: 1. Reverse recovery condition I_r=0.5A,I_r=1.0A,I_r=0.25A
2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
3. P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas
RATINGS AND CHARACTERISTIC CURVES RS1A THRU RS1M

FIG. 1- 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

Note: Specification is subject to change without further notice. For more details and updates, please visit our website.

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