

RECTIFIERS

High Efficiency, 1A

UES1001-UES1003

2

FEATURES

- Very Fast Recovery Times
- Very Low Forward Voltage
- Small Size
- Convenient Package

DESCRIPTION

An axial leaded power rectifier useful in many switching applications. Particularly suited where very fast recovery and low forward voltage are required.

ABSOLUTE MAXIMUM RATINGS

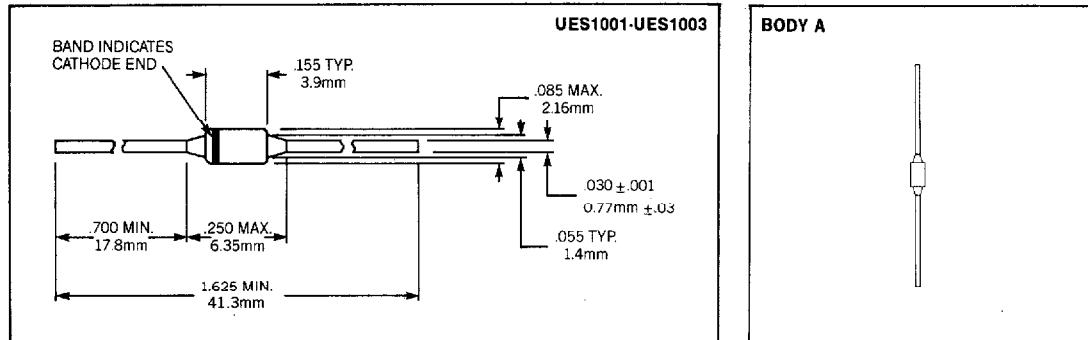
| | |
|--|---------------|
| Peak Inverse Voltage, UES1001 | .50V |
| Peak Inverse Voltage, UES1002 | 100V |
| Peak Inverse Voltage, UES1003 | 150V |
| Maximum Average D.C. Output Current at $T_L = 75^\circ\text{C}$, $L = 3/8"$ | 1A |
| Non-Repetitive Surge Current at 8.3mS | .30A |
| Thermal Resistance at $L = 3/8"$ | 75°C/W |
| Operating and Storage Temperature Range | -55°C + 175°C |

ELECTRICAL SPECIFICATIONS

| Type | PIV | Maximum Forward Voltage (V_F) | | Maximum Reverse Current (I_R) | | Maximum Reverse Recovery Time* |
|---------|------|-----------------------------------|-----------------------------|-----------------------------------|-----------------------------|--------------------------------|
| | | @ $T_J = 25^\circ\text{C}$ | @ $T_J = 100^\circ\text{C}$ | @ $T_J = 25^\circ\text{C}$ | @ $T_J = 100^\circ\text{C}$ | |
| UES1001 | 50V | .975V | .895V | 2μA | 50μA | 25nS |
| UES1002 | 100V | @ | @ | | | |
| UES1003 | 150V | 1A | 1A | | | |

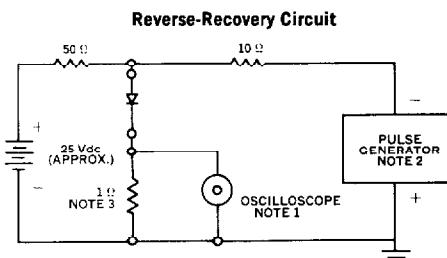
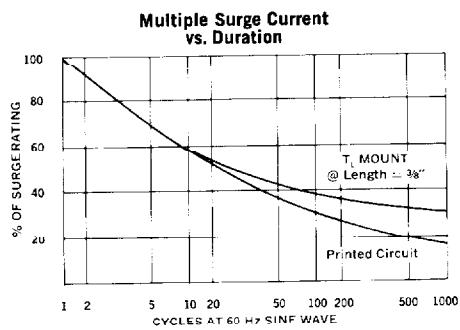
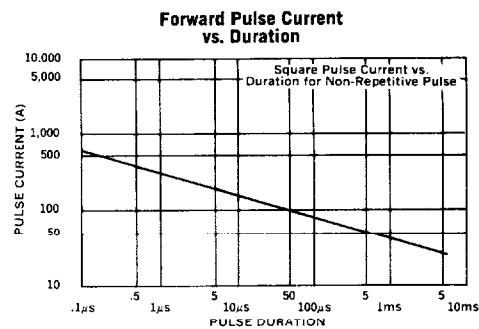
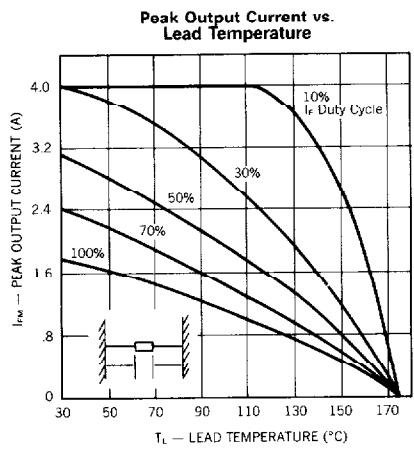
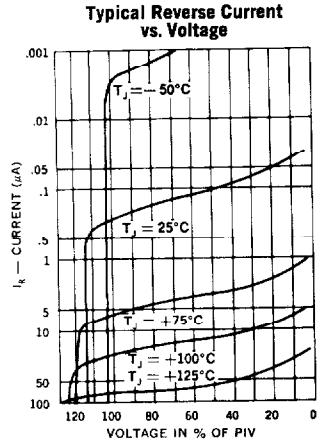
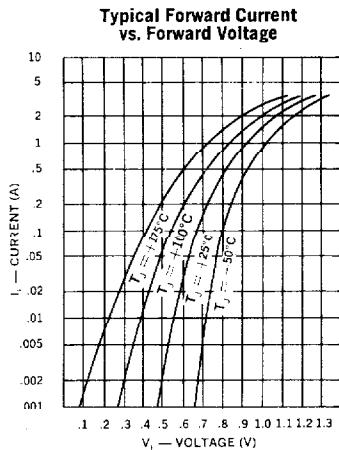
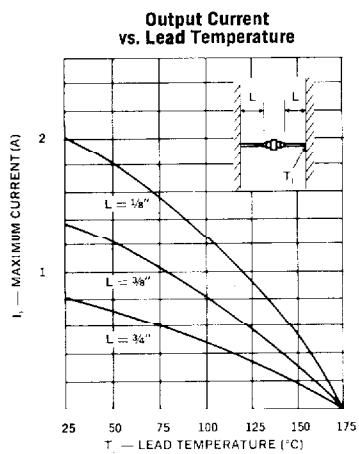
*Measured in circuit $I_F = .5\text{A}$, $I_R = 1.0\text{A}$, $I_{REC} = .25\text{A}$

MECHANICAL SPECIFICATIONS



THESE DEVICES ALSO AVAILABLE IN SURFACE MOUNT PACKAGE. SEE SECTION 10

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