

RECTIFIERS

High Efficiency, 6A

UES1301-UES1303

S SOLID STATE INC.
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FEATURES

- Very Low Forward Voltage
- Very Fast Recovery Times
- Small Size
- High Surge

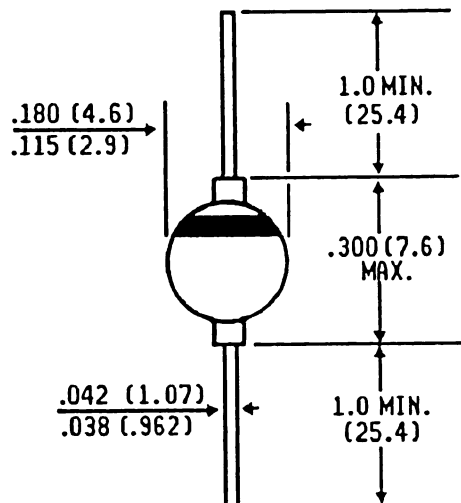
DESCRIPTION

Now power rectifiers in axial leaded package to meet the most demanding switching applications. An industrial product with military reliability.

ABSOLUTE MAXIMUM RATINGS

Peak Inverse Voltage, UES1301	50V
Peak Inverse Voltage, UES1302	100V
Peak Inverse Voltage, UES1303	150V
Maximum Average D.C. Output Current at $T_L = 75^\circ\text{C}$, $L = \frac{3}{8}"$	6.0A
Non-Repetitive Sinusoidal Surge Current at 8.3ms	125A
Thermal Resistance at $L = \frac{3}{8}"$	20°C/W
Operating and Storage Temperature Range	-55°C to +175°C

G4

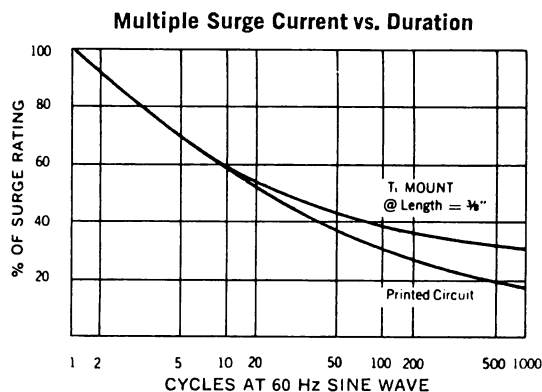
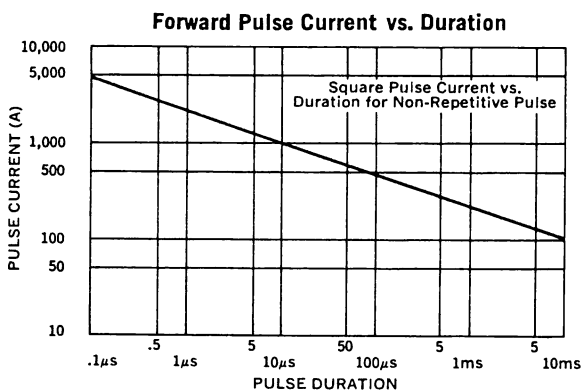
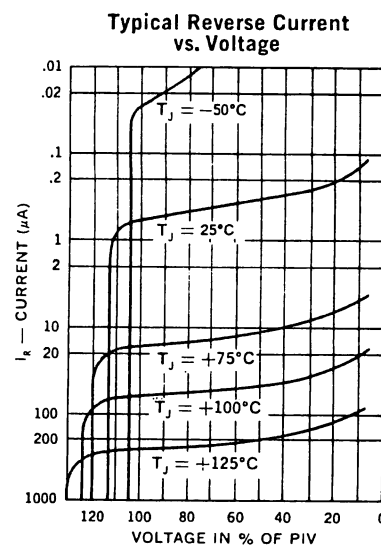
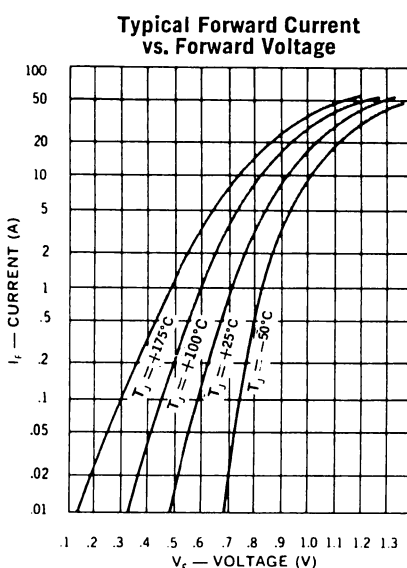
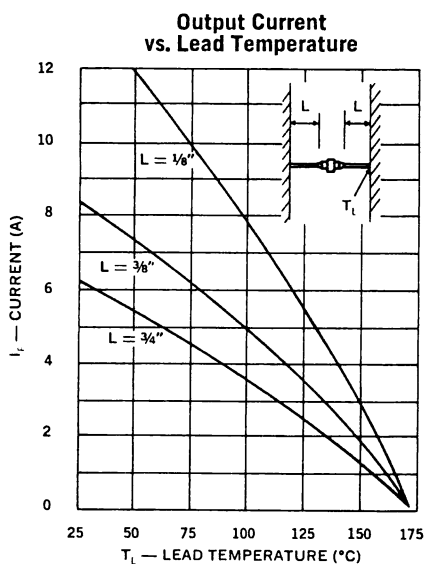


Dimensions in inches and (millimeters)

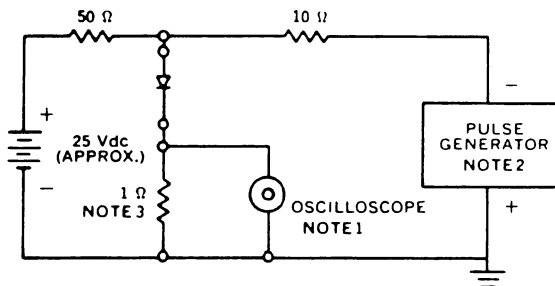
ELECTRICAL SPECIFICATIONS

Type	PIV	Maximum Forward Voltage @		Maximum Reverse Current @		Maximum Reverse Recovery Time*
		T _J = 25°C	T _J = 100°C	T _J = 25°C	T _J = 100°C	
UES1301	50V	.925V	.850V	5μA	150μA	30nsec
UES1302	100V	@	@			
UES1303	150V	6A	6A			

*Measured in circuit I_F = 1/2A, I_R = 1.0A, I_{REC} = 1/4A



Reverse-Recovery Circuit



- NOTES:**
- Oscilloscope: Rise time ≤ 3ns; input impedance = 50Ω.
 - Pulse Generator: Rise time ≤ 8ns; source impedance 10Ω.
 - Current viewing resistor, non-inductive, coaxial recommended.