FEATURES

- Very Low Forward Voltage (1.15V)
 Very Fast Recovery Times (50nSec)
- Small Size
- High Surge

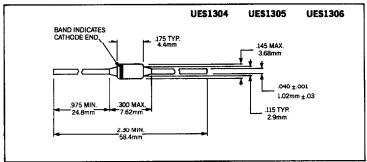


DESCRIPTION

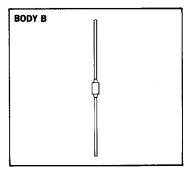
The UES1304 series is specifically designed for operation in power switching circuits operating at frequencies of at least 20 KHz.

ABSOLUTE MAXIMUM RATINGS 200V Peak Inverse Voltage, UES1304 200V Peak Inverse Voltage, UES1305 300V Peak Inverse Voltage, UES1306 400V Maximum Average DC Output Current. In
@ T _A = 25°C (Free Air)
@ T ₁ = 50°C, L = ⅓a″5A
Surge Current, 8.3mSec70A
Thermal Resistance @ $L = \frac{3}{h}$ "

MECHANICAL SPECIFICATIONS









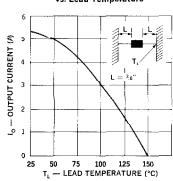
UES1306

ELECTRICAL SPECIFICATIONS

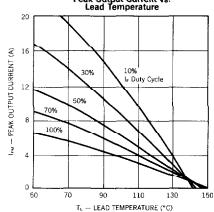
Туре	PIV	Maximum Forward Voltage		Maximum Reverse Current		Maximum Reverse Recovery
		T _J = 25°C	T _J = 100°C	@ PIV, T _J = 25°C	T _J = 100°C	Time*
UFS1304 UES1305 UES1306	200V 300V 400V	1.25V @ 3A tp = 300μS	1.15V @ 3A tp = 300μS	20μΑ	500μΑ	50nS

^{*} Measured in circuit $I_{\rm F}=$ 0.5A, $I_{\rm R}=$ 1A, $I_{\rm REC}=$ 0.25A

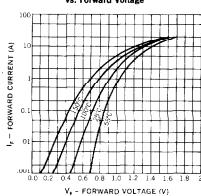




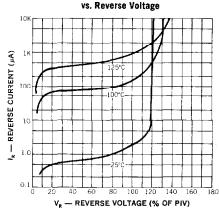
Peak Output Current vs. Lead Temperature

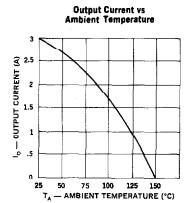


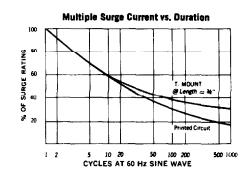
Typical Forward Current vs. Forward Voltage

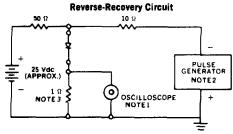


Typical Reverse Current vs. Reverse Voltage









- NOTES:
 1. Oscilloscope: Rise time

 3ns; Input impedance = 50\(\text{2.}\)
 2. Pulse Generator: Rise time

 8ns; source impedance 10\(\text{2.}\)
 3. Current viewing resistor, non-inductive, coaxial recommended.

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