





FEATURES

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

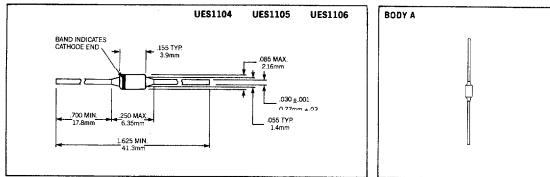


DESCRIPTION

The UES1104 series is specifically designed for operation in power switching circuits operating at frequencies of at least 20 KHz.

ABSOLUTE MAXIMUM RATINGS Peak Inverse Voltage, UES1104 200V Peak Inverse Voltage, UES1105 300V Peak Inverse Voltage, UES1106 400V Maximum Average DC Output Current, IO @ T_A = 25°C (Free Air) @ T_A = 25°C, L = $\frac{3}{4}$ " 2A Surge Current, 8.3mSec 20A Thermal Resistance @ L = $\frac{3}{4}$ " 38°C/W Operating and Storage Temperature Range -55°C to +150°C

MECHANICAL SPECIFICATIONS



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



4/79 (Rev. 1)

2-65

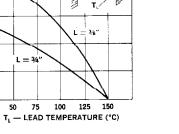
ELECTRICAL SPECIFICATIONS

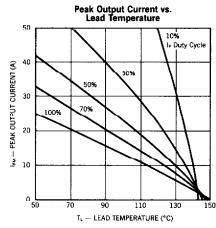
Туре	PIV	Maximum Forward Voltage		Maximum Reverse Current		Maximum Reverse Recovery
		T, == 25°C	T_ = 100°C	@ PIV. T, = 25°C	T, = 100°C	Time*
UES1104/1104HR	200V	1.25V	1.15V			
UES1105/1105HR	300V	@1A	@1A	10µA	200µA	50nS
UES1106/1106HR	400V	$tp = 300 \mu S$	$tp = 300 \mu S$			

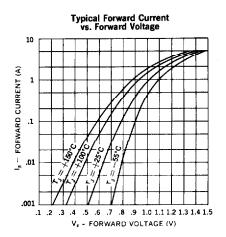
* Measured in circuit $I_{\mu}=$ 0.5A, $I_{g}=$ 1A, $I_{REC}=$ 0.25A

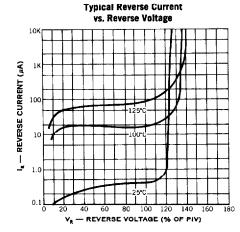
Output Current vs. Lead Temperature 2.5 ┢┺┲╞ 2 E $\mathbf{T}_{\rm c}$ 1.5 $L = \frac{3}{8}$ 1 $L = \frac{3}{4}$.5

0 -25







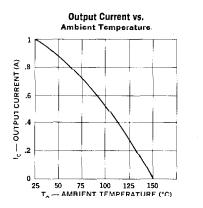


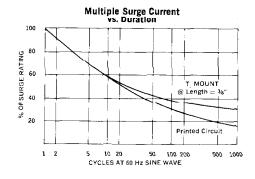
280 PLEASANT STREET - WATERTOWN, MA 02172 TEL. (617) 926-0404 - FAX (617) 924-1235

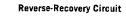
2-66

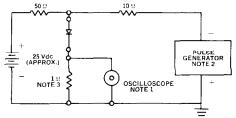
PRINTED IN U.S.A.











NOTES:

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

OPTIONAL HIGH RELIABILITY (HR2) SCREENING (See 1N6620-1N6625)

580 PLEASANT STREET • WATERTOWN, MA 02172 TEL. (617) 926-0404 • FAX (617) 924-1235

2-67

PRINTED IN U.S.A.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Microchip: UES1105HR2