THE DATASHEET OF

UES1106

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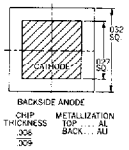
RECTIFIERS
High Efficiency, 2A

UES1104
UES1105
UES1106

2

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

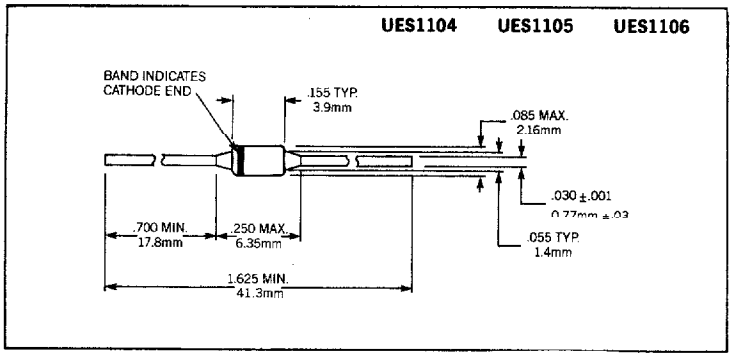


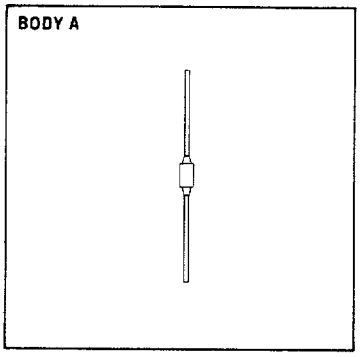
DESCRIPTION
The UES1104 series is specifically designed for operation in power switching circuits operating at frequencies of at least 20 KHz.

ABSOLUTE MAXIMUM RATINGS

Peak Inverse Voltage, UES1104	200V
Peak Inverse Voltage, UES1105	300V
Peak Inverse Voltage, UES1106	400V
Maximum Average DC Output Current, I_O	
@ T_A = 25°C (Free Air)	1A
@ T_L = 50°C, L = ⅜"	2A
Surge Current, 8.3mSec	20A
Thermal Resistance @ L = ⅜"	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

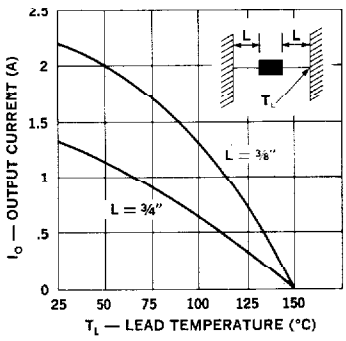
Microsemi Corp.
Watertown
The diode experts

ELECTRICAL SPECIFICATIONS

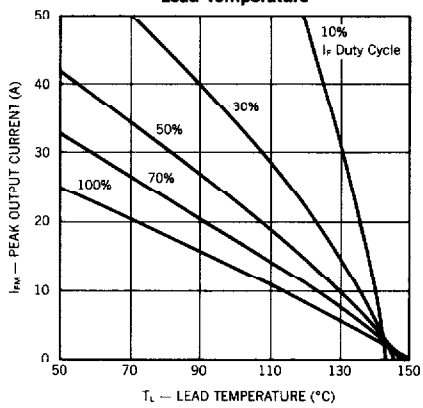
Type	PIV	Maximum Forward Voltage		Maximum Reverse Current		Maximum Reverse Recovery Time*
		$T_J = 25°C$	$T_J = 100°C$	@ PIV, $T_J = 25°C$	$T_J = 100°C$	
UES1104/1104HR UES1105/1105HR UES1106/1106HR	200V 300V 400V	1.25V @ 1A tp = 300μS	1.15V @ 1A tp = 300μS	10μA	200μA	50nS

* Measured in circuit $I_F = 0.5A$, $I_R = 1A$, $I_{REC} = 0.25A$

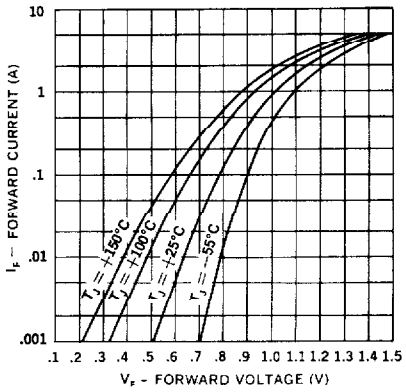
Output Current vs. Lead Temperature



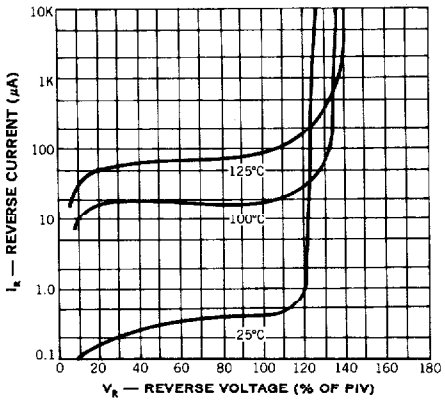
Peak Output Current vs. Lead Temperature



Typical Forward Current vs. Forward Voltage



Typical Reverse Current vs. Reverse Voltage



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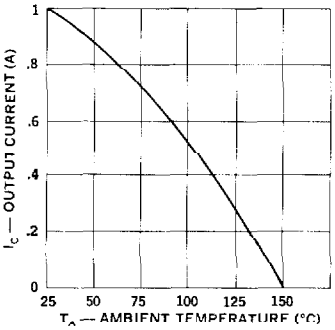
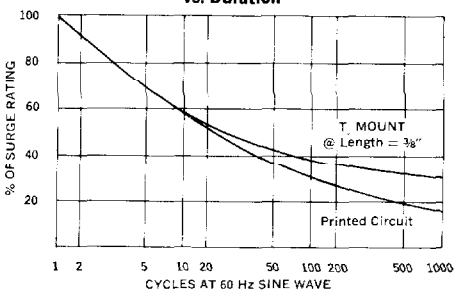
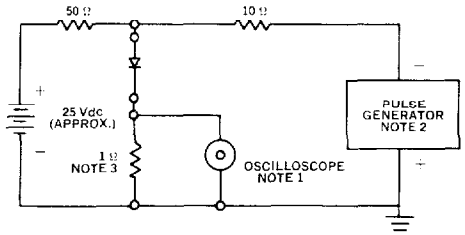
Output Current vs. Ambient Temperature



Multiple Surge Current vs. Duration



Reverse-Recovery Circuit



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

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

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