



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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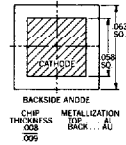
RECTIFIERS

High Efficiency, 5A

UES1304
UES1305
UES1306

FEATURES

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



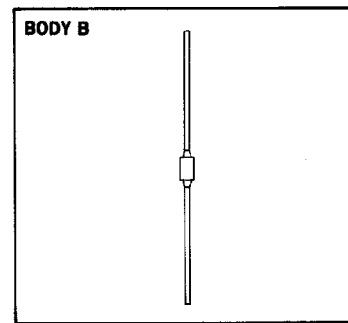
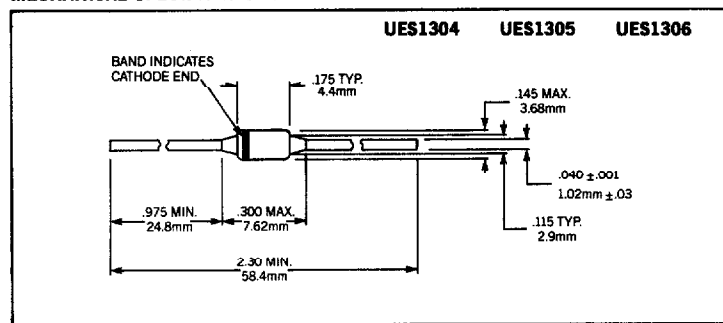
DESCRIPTION

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

ABSOLUTE MAXIMUM RATINGS

Peak Inverse Voltage, UES1304	.....	.200V
Peak Inverse Voltage, UES1305	.....	.300V
Peak Inverse Voltage, UES1306	.....	.400V
Maximum Average DC Output Current, I_O		
@ $T_A = 25^\circ\text{C}$ (Free Air)	.....	3A
@ $T_L = 50^\circ\text{C}$, $L = \frac{3}{8}"$	.....	5A
Surge Current, 8.3mSec	.....	.70A
Thermal Resistance @ $L = \frac{3}{8}"$	.....	20°C/W
Operating and Storage Temperature Range	.....	-55°C to +150°C

MECHANICAL SPECIFICATIONS



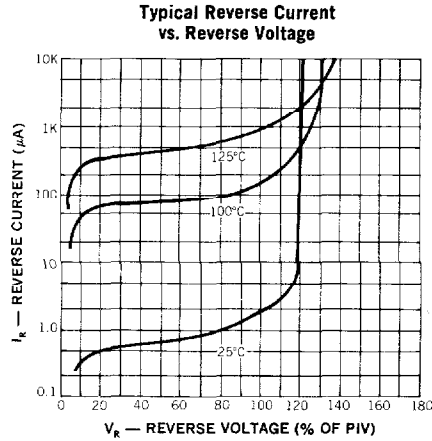
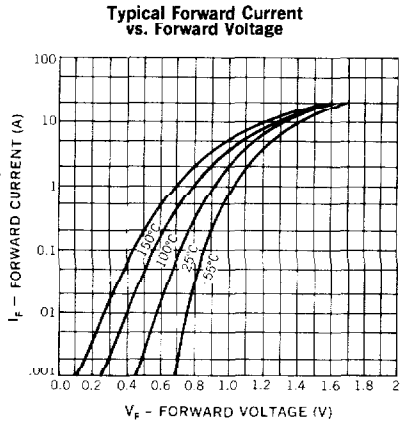
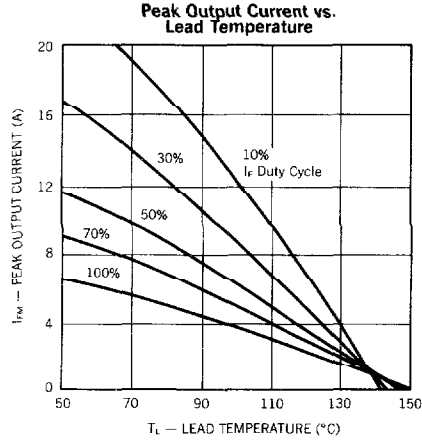
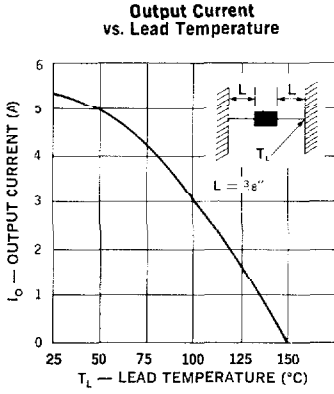
THESE DEVICES ALSO AVAILABLE IN SURFACE MOUNT PACKAGE. SEE SECTION 10

Microsemi Corp.
Watertown
The diode experts

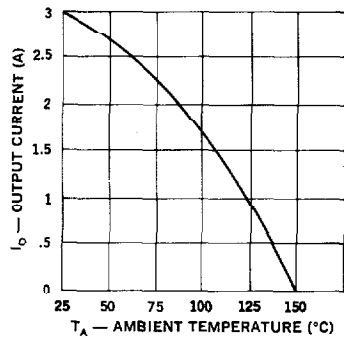
ELECTRICAL SPECIFICATIONS

Type	PIV	Maximum Forward Voltage		Maximum Reverse Current		Maximum Reverse Recovery Time*
		$T_J = 25^\circ\text{C}$	$T_J = 100^\circ\text{C}$	@ PIV, $T_J = 25^\circ\text{C}$	$T_J = 100^\circ\text{C}$	
UES1304	200V	1.25V	1.15V	$20\mu\text{A}$	$500\mu\text{A}$	50nS
UES1305	300V	@ 3A	@ 3A			
UES1306	400V	$t_p = 300\mu\text{S}$	$t_p = 300\mu\text{S}$			

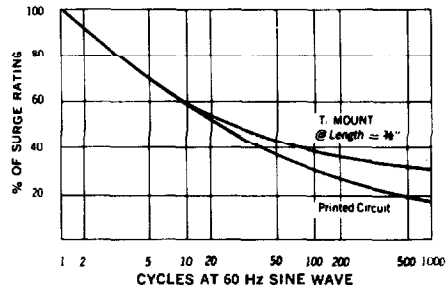
* Measured in circuit $I_F = 0.5\text{A}$, $I_R = 1\text{A}$, $I_{REC} = 0.25\text{A}$



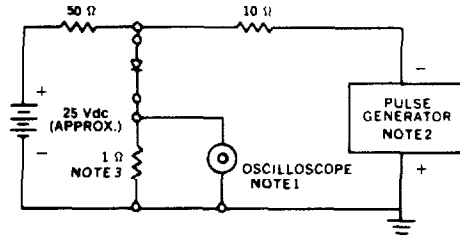
Output Current vs Ambient Temperature



Multiple Surge Current vs. Duration



Reverse-Recovery Circuit



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