

### FEATURES

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.
- Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding "-PBF" suffix.

### MAXIMUM RATINGS

		UES1104 - UES1106
Peak Inverse Voltage:	UES1104	200V
	UES1105	300V
	UES1106	400V
Maximum Average D.C. Output Current: $I_o$ @ $T_A = 25^\circ\text{C}$ (Free Air) @ $T_L = 50^\circ\text{C}$ , $L = \frac{1}{2}$ "		1A
		2A
Surge Current (8.3ms)		20A
Thermal Resistance @ $L = \frac{1}{2}$ "		38°C/W
Operating & Storage Temperature Range		-55°C to +150°C

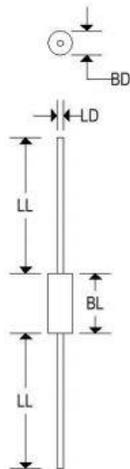
### ELECTRICAL CHARACTERISTICS

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, $T_J = 25^\circ\text{C}$	$T_J = 100^\circ\text{C}$	
UES1104 UES1105 UES1106	200V 300V 400V	1.25V @ 1A $t_p = 300\mu\text{s}$	1.15V @ 1A $t_p = 300\mu\text{s}$	10 $\mu\text{A}$	200 $\mu\text{A}$	50ns

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

### MECHANICAL CHARACTERISTICS

Case:	Digi A
Marking:	Alpha-Numeric
Polarity:	Cathode Band



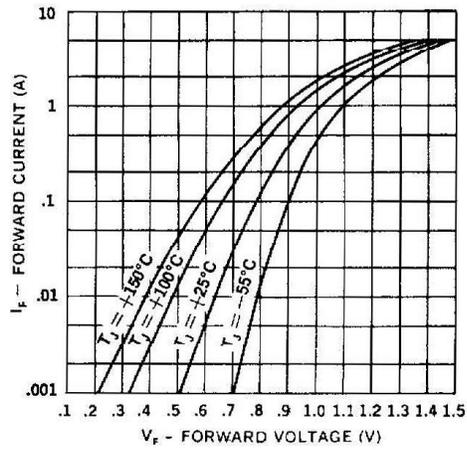
	Digi A			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	0.060	0.095	1.524	2.413
BL	0.125	0.205	3.175	5.207
LD	0.026	0.033	0.660	0.838
LL	1.000	1.500	25.400	38.100

BL includes slugs and uncontrolled area of the leads

## UES1104-UES1106

### HIGH EFFICIENCY RECTIFIERS

**Typical Forward Current vs. Forward Voltage**



**Typical Reverse Current vs. Reverse Voltage**

