

# UES1101-UES1103

## 2.5A HIGH EFFICIENCY RECTIFIERS

### 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

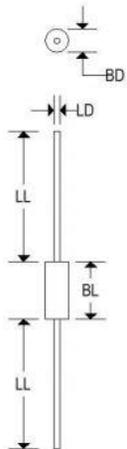
Rating	Symbol	UES1101	UES1102	UES1103	Unit
Peak inverse voltage	$V_R$	50	100	150	V
Maximum average DC output at $T_L = 75^\circ\text{C}$ , $L = 3/8"$	$I_o$	2.5			A
Non-repetitive surge current at 8.3ms	$I_{FSM}$	35			A
Thermal resistance at $L = 3/8"$	$R_{\theta JC}$	38			$^\circ\text{C}/\text{W}$
Junction operating temperature	$T_J$	175			$^\circ\text{C}$
Operating and storage temperature range	$T_{op}$ , $T_{stg}$	-55 to 175			$^\circ\text{C}$

### ELECTRICAL CHARACTERISTICS

Part number	Maximum reverse voltage	Maximum forward voltage @		Maximum reverse current @ rated $V_R$		Maximum reverse recovery time*
	$V_R$	$T_J = 25^\circ\text{C}$	$T_J = 100^\circ\text{C}$	$T_J = 25^\circ\text{C}$	$T_J = 100^\circ\text{C}$	
	Volts			$\mu\text{A}$	$\mu\text{A}$	
UES1101	50	0.975V @ 2A	0.895V @ 2A	2	50	25
UES1102	100					
UES1103	150					

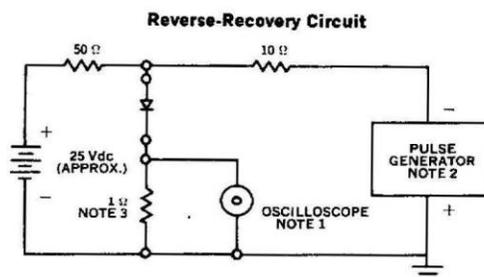
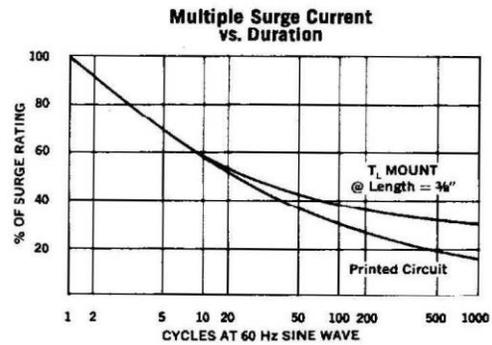
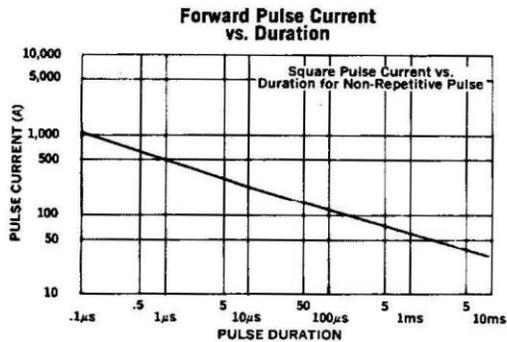
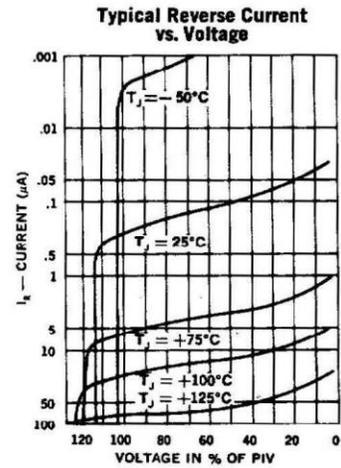
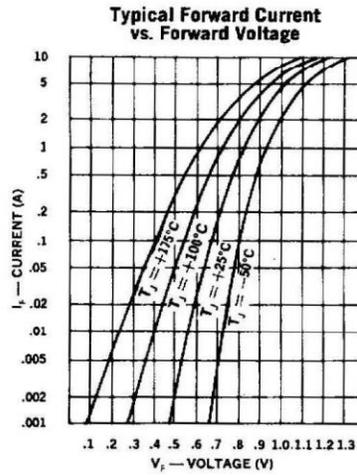
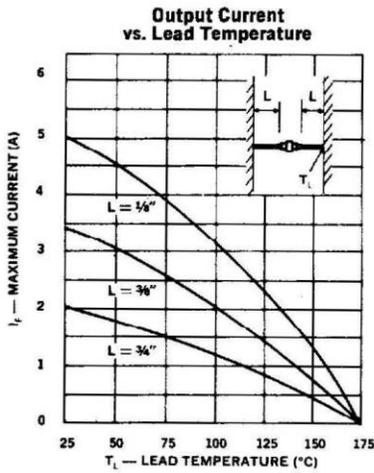
### MECHANICAL CHARACTERISTICS

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



**Notes:**

1. Oscilloscope: Rise time  $\leq 3\text{nS}$ ; input impedance =  $50\Omega$ .
2. Pulse Generator: Rise time  $\leq 8\text{nS}$ ; source impedance  $10\Omega$ .
3. Current viewing resistor, non-inductive, coaxial recommended.