# **RECTIFIERS**

## High Efficiency, 2.5A

**FEATURES** 

- Very Fast Recovery Times
   Very Low Forward Voltage
- Small Size
- Convenient Package

BYV27-50 BYV27-100 UES1101 UES1102 UES1103 BYV27-150

### DESCRIPTION

An axial leaded power rectifier useful in many switching applications. Particularly suited where very fast recovery and low forward voltage are required.

### **ABSOLUTE MAXIMUM RATINGS**

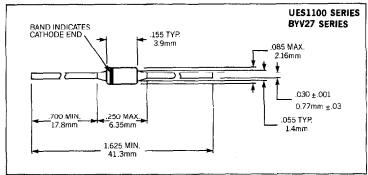
	DE21101	UE31102	UE51103	BYV27-50	BAA51-100	B1451-120
Peak Inverse Voltage, V <sub>R</sub>	50V	100V	150V	50V	100V	150V
Maximum Average D.C. Output at T <sub>L</sub> = 75°C, L = 3/4", I <sub>O</sub>						
Non-Repetitive Surge Current at 8.3ms, I <sub>FSM</sub>						
Inermal Resistance at L = 3/8", Redc						
Junction Operating Temperature, T						
Operating and Storage Temperature Range						

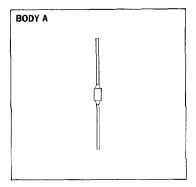
### **ELECTRICAL SPECIFICATIONS**

Maximum Reverse Type Voltage V <sub>R</sub>	Reverse	Maximum Forward Voltage @		Maxi Reverse @ Rat	Maximum Reverse Recovery	
	V <sub>R</sub>	T <sub>J</sub> = 25°C	T. = 100°C	T. = 25° C	T <sub>J</sub> = 100°C	Time*
UES1101 UES1102 UES1103	50V 100V 150V	.975V @ 2A	.895V @ 2A	2μΑ	50μA	25nS
		T <sub>J</sub> = 25°C	T <sub>J</sub> = 165°C	T <sub>J</sub> = 25°C	T <sub>J</sub> = 165°C	
BYV27-50 BYV27-100 BYV27-150	50V 100V 150V	1.25V @ 5A	.85V @ 2.5A	1μΑ	150μΑ	25n\$

<sup>\*</sup>Measured in circuit  $I_F = \frac{1}{2}A$ ,  $I_R = 1.0A$ ,  $I_{REC} = \frac{1}{4}A$ 

### MECHANICAL SPECIFICATIONS



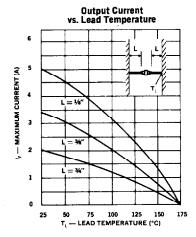


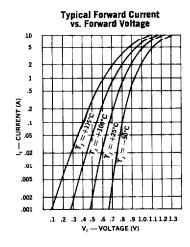
THESE DEVICES ALSO AVAILABLE IN SURFACE MOUNT PACKAGE. SEE SECTION 10

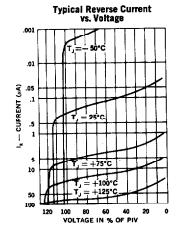


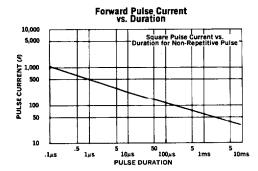
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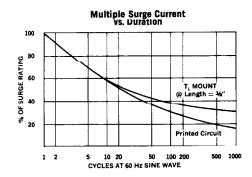
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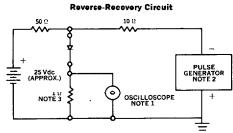












- 1. Oscilloscope: Rise time  $\leq$  3nS; input impedance =  $50\Omega$ .

  2. Pulse Generator: Rise time  $\leq$  8nS; source impedance  $10\Omega$ .

  3. Current viewing resistor, non-inductive, coaxial recommended.

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