RECTIFIERS

High Efficiency, 2.5A

FEATURES

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

UES1101 BYV27-50 UES1102 BYV27-100 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

ABSOLUTE MAXIMUM RATINGS

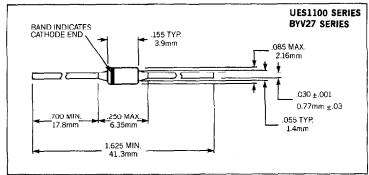
	UES1101	UE\$1102	UE\$1103	BYV27-50	BYV27-100	BYV27-150
Peak Inverse Voltage, V _R	50V	100V	150V	50V	100V	150V
Maximum Average D.C. Output at $T_L = 75$ °C, $L = \frac{3}{6}$ ", I_0 .		2.5A			, 2.0A	
Non-Repetitive Surge Current at 8.3ms, I _{FSM}		35A			50A	
Inermal Resistance at L = 3/8", Redc						
Junction Operating Temperature, T						
Operating and Storage Temperature Range						

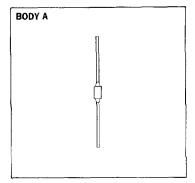
ELECTRICAL SPECIFICATIONS

Rever	Maximum Reverse Voltage	Forward	mum i Voltage @	Maximum Reverse Current @ Rated V _R		Maximum Reverse Recovery
	V _R	T _J = 25°C	T. = 100°C	T. = 25° C	T _J = 100°C	Time*
UES1101 UES1102 UES1103	50V 100V 150V	.975V @ 2A	.895V @ 2A	2μΑ	50μA	25nS
		T _J = 25°C	T _J = 165°C	T _J = 25°C	T _J = 165°C	
BYV27-50 BYV27-100 BYV27-150	50V 100V 150V	1.25V @ 5A	.85V @ 2.5A	1μΑ	150μΑ	25n\$

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

MECHANICAL SPECIFICATIONS



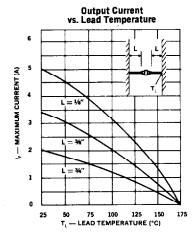


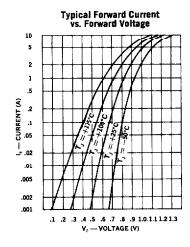
THESE DEVICES ALSO AVAILABLE IN SURFACE MOUNT PACKAGE. SEE SECTION 10

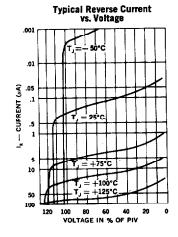


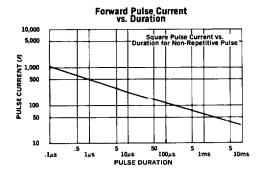
4/82

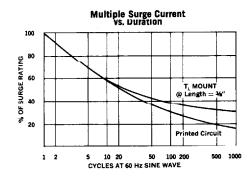
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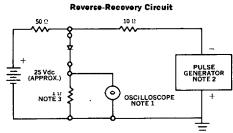












- 1. Oscilloscope: Rise time \leq 3nS; input impedance = 50Ω .

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

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

Mouser Electronics

Authorized Distributor

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Microsemi: UES1103