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RECTIFIERS

High Efficiency, 2.5A

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

FEATURES

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

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

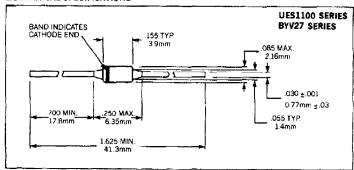
	UES1101	UE\$1102	UE\$1103	BYV27-50	BYV27-100	BYV27-150
Peak Inverse Voltage, V _n	50V	100V	150V	50V	100V	150v
Maximum Average D.C. Output at T _L = 75°C, L = 3/4", Io		2.5A			2.0A	
Non-Repetitive Surge Current at 8.3ms, I _{FSM}		35A			50A	
Thermal Resistance at L = %", Rejc		38°C/W			46°C/W	
Junction Operating Temperature, T ₁		. 175°C .		<i></i>	165°C	
Operating and Storage Temperature Range			5	5°C to +175°	c	

ELECTRICAL SPECIFICATIONS

Maximum Reverse Type Voltage Va	Maximum Forward Voltage @		Maximurn Reverse Current @ Ratéd V _A		Maximum Reverse Recovery	
	T. = 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	25n\$
		T _a = 25°C	T, = 165°C	T _J = 25°C	T. = 165°C	
BYV27-50 BYV27-100 BYV27-150	50V 100V 150V	1.25V @ 5A	.85V @ 2.5A	1μΑ	150µA	25n\$

^{*}Measured in circuit $I_{\rm F} = \frac{1}{2}A$, $I_{\rm R} = 1.0A$, $I_{\rm REG} = \frac{1}{2}A$

MECHANICAL SPECIFICATIONS





NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However, NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.

Quality Semi-Conductors