

New Jersey Semi-Conductor Products, Inc.

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RECTIFIERS

High Efficiency, 3.5A

UES1301 BYV28-50
UES1302 BYV28-100
UES1303 BYV28-150

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

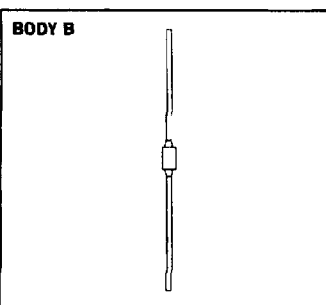
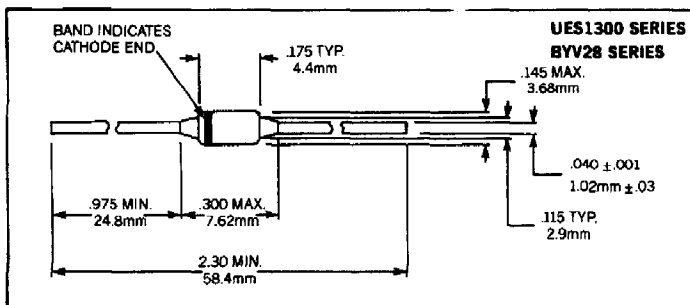
	UES1301	UES1302	UES1303	BYV28-50	BYV28-100	BYV28-150
Peak Inverse Voltage, V_R	50V	100V	150V	50V	100V	150V
Maximum Average D.C. Output at $T_J = 75^\circ\text{C}$, $L = \frac{3}{4} I_o$	6.0A	6.0A	6.0A	3.5A	3.5A	3.5A
Non-Repetitive Surge Current at 8.3ms, I_{FSM}	125A	125A	125A	80A	80A	80A
Thermal Resistance at $L = \frac{3}{4} I_o$, $R_{\theta JC}$	20°C/W	20°C/W	20°C/W	25°C/W	25°C/W	25°C/W
Junction Operating Temperature, T_J	175°C	175°C	175°C	165°C	165°C	165°C
Operating and Storage Temperature Range	-55°C to +175°C					

ELECTRICAL SPECIFICATIONS

Type	Maximum Reverse Voltage V_R	Maximum Forward Voltage @		Maximum Reverse Current @ Rated V_R		Maximum Reverse Recovery Time*
		$T_J = 25^\circ\text{C}$	$T_J = 100^\circ\text{C}$	$T_J = 25^\circ\text{C}$	$T_J = 100^\circ\text{C}$	
UES1301 UES1302 UES1303	50V 100V 150V	.925V @ 6A	.850V @ 6A	5 μA	150 μA	30ns
BYV28-50 BYV28-100 BYV28-150	50V 100V 150V	1.10V @ 5A	.75V @ 3A .90V @ 5A	1 μA	150 μA	30ns

*Measured in circuit $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $t_{rec} = .25\text{A}$

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

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