New Jersey Semi-Conductor Products, Inc.

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RECTIFIERSHigh 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

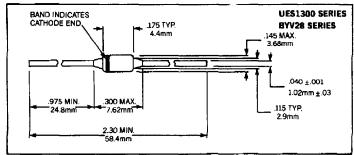
	UES1301	UES1302	UES1303	BYV28-50	BYV28-100 BYV28-150
Peak Inverse Voltage, VR	50V	1007	,,, 150V ,,	50V	100V 150V
Maximum Average D.C. Output at T _L = 75°C, L = 3/4" I ₀		6.0A			,, 3.5A
Non-Repetitive Surge Current at 8.3ms, Issu		125A			, 80A
Thermal Resistance at L = 3/4", Resc		20°C/W			25°C/W
Junction Operating Temperature, Ti					
Operating and Storage Temperature Range					

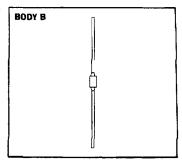
ELECTRICAL SPECIFICATIONS

Maximum Reverse Type Voltage V _n	Reverse	Maximum Forward Voltage @		Max Reverse @ Ra	Maximum Reverse Recovery		
	V _R	T, = 25°C	T, =	100°C	T _J = 25°C	T_ = 100°C	Time*
UES1301 UES1302 UES1303	50V 100V 150V	.925V @ 6A	.850V @ 6A T _J = 165°C		5 <i>µ</i> A	150μA	30ns
		T, = 25°C			T _J = 25°C	T ₃ = 100°C	
BYV28-50 BYV28-100 BYV28-150	50V 100V 150V	1.10V @ 5A	.75V @ 3A	.90V @ 5A	1μΑ	150μΑ	30ns

^{*}Measured in circuit I_F = 0.5A, I_R = 1.0A, I_{REC} = .25A

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