

FEATURES

Very Fast Recovery Times
Very Low Forward Voltage

ADDOLUTE MAYIMUM DATINGS

- 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.

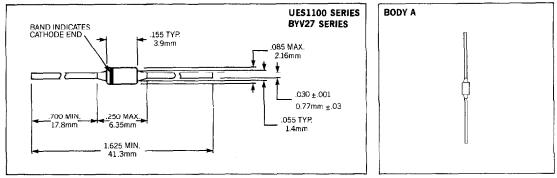
ADSULUTE MAXIMUM RATINGS			03 BYV27-50		
Peak Inverse Voltage, V _R	50V 10	00V 150V		100V	150V
Maximum Average D.C. Output at T _L = 75°C, L = %", Io					
Non-Repetitive Surge Current at 8.3ms, IFSM	3	5A		50A	
I hermal Resistance at L = 3/6", Resc		°C/W		46°C/W	
Junction Operating Temperature, T		′5°C	<u>.</u>	165°C	
Operating and Storage Temperature Range		• • • • • • • • • • • • • • • •	55°C to +175°	С	

ELECTRICAL SPECIFICATIONS

Maximum Reverse Type Voltage		Maximum Forward Voltage @		Maximum Reverse Current @ Rated V _R		Maximum Reverse Recovery
	V _R	T, = 25°C	T ₄ = 100°C	T. = 25° C	T ₄ = 100°C	Time*
UES1101 UES1102 UES1103	50V 100V 150V	.975V @ 2A	.895V @ 2A	2µA	50µA	25nS
		T _J = 25°C	T _J = 165°C	T _J = 25°C	TJ = 165°C	
BYV27-50 BYV27-100 BYV27-150	50V 100V 150V	1.25V @ 5A	.85V @ 2.5A	1µA	150µA	25n\$

*Measured in circuit $I_{\rm F}$ = ½A, $I_{\rm R}$ = 1.0A, $I_{\rm REC}$ = ½A

MECHANICAL SPECIFICATIONS



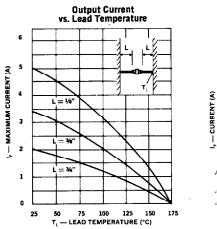
THESE DEVICES ALSO AVAILABLE IN SURFACE MOUNT PACKAGE. SEE SECTION 10

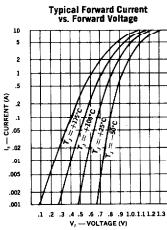
Micro/semi Corp. Watertown The diode experts

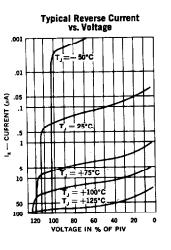
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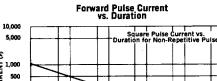
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UES1101	BYV27 - 50
UES1102	BYV27-100
UES1103	BYV27-150









50 100µs 5 50 10µs 100µs PULSE DURATION

5

1ms

PULSE CURRENT (#)

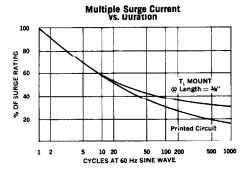
100 50

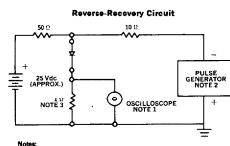
10

.1µs

.5

1μs





5 10ms

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