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**2,000 V - 5,000 V Rectifiers**  
**0.5 A - 1.5 A Forward Current**  
**30 ns - 50 ns Recovery Time**

**1N6836 1N6837**  
**1N6838 1N6839**

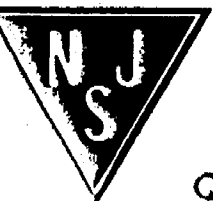
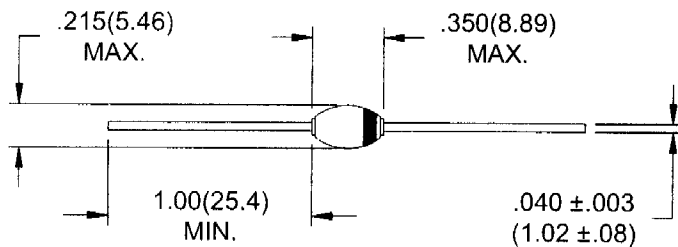
**AXIAL LEADED**  
**HERMETICALLY SEALED**



**ELECTRICAL CHARACTERISTICS AND MAXIMUM RATINGS**

Part Number	Working Reverse Voltage (V <sub>rw</sub> )	Average Rectified Current (I <sub>o</sub> )		Reverse Current @ V <sub>rw</sub> (I <sub>r</sub> )		Forward Voltage (V <sub>f</sub> )		1 Cycle Surge Current t <sub>p</sub> =8.3ms (I <sub>fsm</sub> )	Repetitive Surge Current (I <sub>frm</sub> )	Reverse Recovery Time (3) (T <sub>rr</sub> )	Thermal Impedance θ <sub>J-L</sub>			Junction Cap @50VDC @ 1kHz (C <sub>j</sub> )			
		55°C(1)	100°C(2)	25°C	100°C	25°C					25°C	25°C	25°C		L= .000	L= .125	L= .250
		Volts	Amps	Amps	µA	µA	Volts				Amps	Amps	Amps		ns	°C/W	°C/W
1N6836	2000	1.00	0.75	1.0	25	6.0	1.00	40.0	5.0	30	3	6	12	20			
1N6837	5000	0.50	0.25	1.0	25	12.0	0.50	20.0	4.0	30	3	6	12	16			
1N6838	2000	1.50	1.00	1.0	25	4.5	1.50	60.0	10.0	50	3	6	12	20			
1N6839	5000	0.60	0.50	1.0	25	10.0	0.60	30.0	6.0	50	3	6	12	16			

(1) T<sub>L</sub> = 55°C L = 0.375" (2) T<sub>L</sub> = 100°C L = 0.375" (3) I<sub>f</sub> = 0.5A, I<sub>r</sub> = 1.0A, I<sub>rr</sub> = 0.25A • Op. Temp. = -65°C to +175°C Stg Temp. = -65°C to +200°C



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**