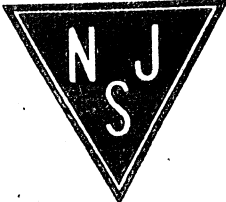


20 STERN AVE.
 SPRINGFIELD, NEW JERSEY 07081
 U.S.A.

TELEPHONE: (973) 376-2922
 (212) 227-6005
 FAX: (973) 376-8960

	JEDEC Number	Repetitive Peak Reverse Voltage	<ul style="list-style-type: none"> • High Voltage, Low Leakage Current • Glass Passivated Die • Soft Recovery • 400 Amps Surge Rating • V_{RRM} to 600V
	1N3491, 1N3659	50V	
	1N3492, 1N3660	100V	
	1N3493, 1N3661	200V	
	1N3494, 1N3662	300V	
	1N3495, 1N3663	400V	
	1N3664 1N3665	500V 600V	

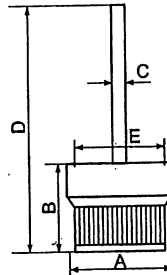
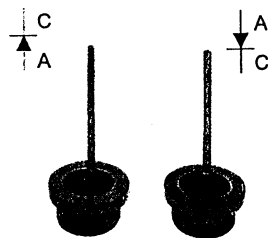
Add "R" suffix to the JEDEC part number to specify reverse

Electrical Characteristics		
Average Forward Current (standard polarity)	$I_{F(AV)}$ 35 Amps	$T_C = 133^\circ\text{C}$, half sine wave, $R_{\theta JC} = 1.0^\circ\text{C/W}$
Average Forward Current (reverse polarity)	$I_{F(AV)}$ 35 Amps	$T_C = 92^\circ\text{C}$, half sine wave, $R_{\theta JC} = 2.0^\circ\text{C/W}$
Maximum Surge Current	I_{FSM} 400 Amps	8.3ms, half sine, $T_J = 175^\circ\text{C}$
Maximum I^2t For Fusing	I^2t 665 A^2s	
Max. Peak Forward Voltage	V_{FM} 1.1 Volts	$I_{FM} = 35\text{A}; T_J = 25^\circ\text{C}^*$
Max. Peak Reverse Current	I_{RM} 10 μA	$V_{RRM}, T_J = 25^\circ\text{C}$
Max. Peak Reverse Current	I_{RM} 2.0 mA	$V_{RRM}, T_J = 150^\circ\text{C}$
Max. Recommended Operating Frequency	10kHz	

*Pulse test: Pulse width 300 μsec . Duty cycle 2%

Thermal and Mechanical Characteristics		
Storage temp range	T_{STG}	-65°C to 175°C
Operating junction temp range	T_J	-65°C to 175°C
Max thermal resistance (standard polarity)	$R_{\theta JC}$	1.0°C/W Junction to case
Max thermal resistance (reverse polarity)	$R_{\theta JC}$	2.0°C/W Junction to case
Typical thermal resistance	$R_{\theta CS}$	0.2°C/W Case to sink
Typical Weight		0.3 ounce (9.0 grams) typical

Outline Dimension List



ZQ-H size		DIM	ZQ-L2 size	
Min	Max		Min	Max
12.90	13.06	A	12.90	13.06
7.70	8.10	B	8.60	9.00
1.25	1.31	C	1.80	2.20
29.10	31.10	D	54.00	56.00
11.10	11.50	E	16.10	16.50

