

# New Jersey Semi-Conductor Products, Inc.

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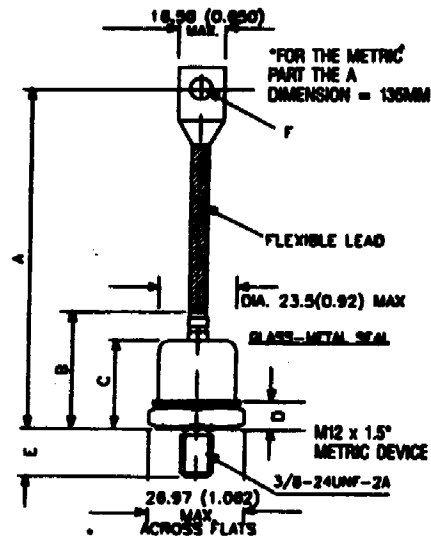
## Absolute Maximum Ratings

Characteristics	Symbol	IN3288A,AR - IN3297A,AR	Units
RMS Forward Current	$I_{F(rms)}$	160	Amperes
Average Forward Current	$I_{F(av)}$	100	Amperes
One-half Cycle Surge Current (at 60 Hz, Under Load)	$I_{FSM}$	2300	Amperes
$I^2t$ (for Fusing) at 60 Hz Half-Wave	$I^2t$	22000	A <sup>2</sup> sec
Storage Temperature	$T_{stg}$	-40 to +200	°C
Operating Temperature	$T_j$	-40 to +200	°C
Mounting Torque (Lubricated)		120	in-lb

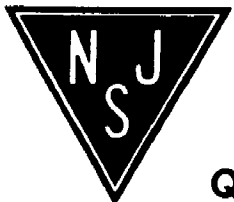
## Electrical and Thermal Characteristics

Characteristics	Symbol	IN3288A	IN3289A*	IN3290A	IN3291A*	IN3292A	IN3293A	IN3294A*	IN3295A*	IN3296A	IN3297A	Units
<b>Current - Conducting State Maximums, <math>T_j = 200^\circ\text{C}</math></b>												
Forward Voltage Drop at 100A Average, $T_C = 130^\circ\text{C}$ , Peak Volts	$V_{FM}$	1.5 (All Types)										Volts
<b>Voltage - Blocking State Maximums</b>												
Repetitive Peak Reverse Voltage	$V_{RRM}$	100	200	300	400	500	600	800	1000	1200	1400	Volts
on-rep. Trans. Peak Rev. Voltage	$V_{RSM}$	200	300	400	525	650	800	1050	1300	1600	1800	Volts
Maximum Allowable DC Blocking Voltage	$V_R$	100	200	300	400	500	600	800	1000	1200	1400	Volts
Reverse Leakage Current, at Rated $V_{RRM}$ , 100A Average, Single Phase, $T_C = 130^\circ\text{C}$	$I_{RRM}$	24	24	24	24	21	17	13	11	9	7	mA
<b>Thermal</b>												
Maximum Resistance, Junction to Case	$R_{\theta(j-c)}$	0.40 (All Types)										°C/Watt
Maximum Resistance, Case to Sink (Lubricated)	$R_{\theta(c-s)}$	0.15 (All Types)										°C/Watt

DO-8



	A	B	C	D	E	F	
mm	114.3	41.27	27.6	8.81	16.26	6.70	RB A
Inches	4.5	1.625	1.083	0.347	0.64	0.264	
mm	170	38	24.0	12.5	18.25	6.3	RB B
Inches	6.69	1.496	0.945	0.492	0.740	0.25	



Quality Semi-Conductors