

New Jersey Semi-Conductor Products, Inc.

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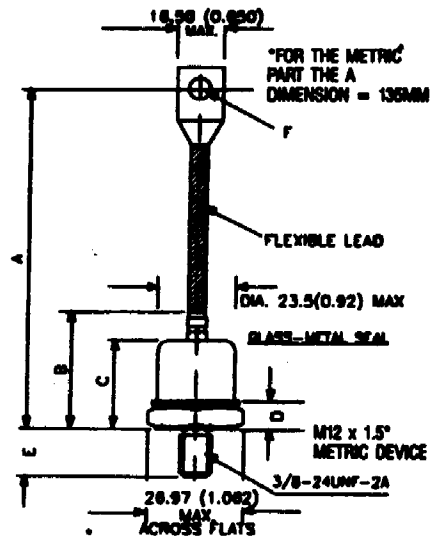
Absolute Maximum Ratings

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 ² sec
Storage Temperature	T_{stg}	-40 to +200	°C
Operating Temperature	T_j	-40 to +200	°C
Mounting Torque (Lubricated)		120	in-lb

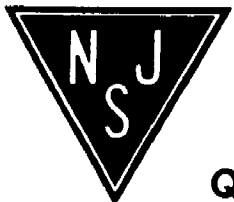
Electrical and Thermal Characteristics

Characteristics	Symbol	IN3288A	IN3289A*	IN3290A	IN3291A*	IN3292A	IN3293A	IN3294A*	IN3295A*	IN3296A	IN3297A	Units	
Current - Conducting State Maximums, $T_j = 200^\circ\text{C}$													
Forward Voltage Drop at 100A Average, $T_C = 130^\circ\text{C}$, Peak Volts	V_{FM}											1.5 (All Types)	Volts
Voltage - Blocking State Maximums													
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	
Thermal													
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	18.28	8.70	
Inches	4.5	1.625	1.083	0.347	0.64	0.264	RB A
mm	170	38	24.0	12.5	18.25	8.3	
Inches	6.69	1.496	0.945	0.492	0.640	0.32	RB B



Quality Semi-Conductors