


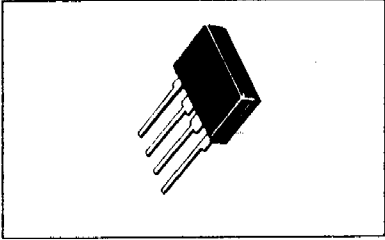
**MDA200 series  
(3N253 thru  
3N259)**

**MINIATURE INTEGRAL DIODE ASSEMBLIES**

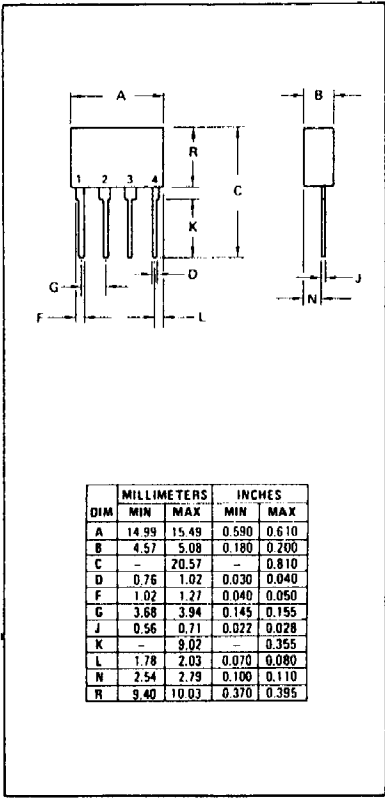
... with silicon rectifier chips interconnected and encapsulated into voidless rectifier bridge circuits.

- High Resistance to Shock and Vibration
- High Dielectric Strength
- Built-In Printed Circuit Board Stand-Offs
- UL Recognized
- $RO_{JA} = 60^{\circ}\text{C}/\text{W}$

  
**SINGLE-PHASE  
FULL-WAVE BRIDGE**  
**2.0 AMPERES  
50-1000 VOLTS**



MAXIMUM RATINGS			3N253	3N254	3N255	3N256	3N257	3N258	3N259	
Rating (Per Diode)	Symbol		MDA200	MDA201	MDA202	MDA204	MDA206	MDA208	MDA210	Unit
Peak Repetitive Reverse Voltage	VRRM		50	100	200	400	600	800	1000	Volts
Working Peak Reverse Voltage	VRWM									
DC Blocking Voltage	V <sub>R</sub>									
DC Output Voltage	V <sub>dc</sub>		32	64	127	255	382	510	640	Volts
Resistive Load	V <sub>dc</sub>		50	100	200	400	600	800	1000	Volts
Capacitive Load	V <sub>dc</sub>									
Sine Wave RMS Input Voltage	V <sub>R(RMS)</sub>		35	70	140	280	420	560	700	Volts
Average Rectified Forward Current (single phase bridge operation, resistive load, 60 Hz, T <sub>A</sub> = 55°C)	I <sub>O</sub>		2.0							Amp
Non-Repetitive Peak Surge Current (Preceded and followed by rated current and voltage, T <sub>A</sub> = 55°C)	I <sub>FSM</sub>		60 (for 1 cycle)							Amp
Operating and Storage Junction Temperature Range	T <sub>J</sub> , T <sub>stg</sub>		-55 to +165							°C



**ELECTRICAL CHARACTERISTICS**

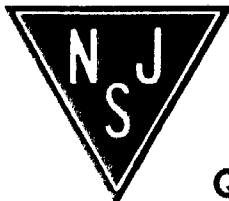
Characteristic	Symbol	Typ	Max	Unit
Instantaneous Forward Voltage (Per Diode) (I <sub>F</sub> = 3.14 Amp, T <sub>J</sub> = 25°C)	V <sub>F</sub>	1.0	1.1	Volts
Reverse Current (Per Diode) (Rated V <sub>R</sub> , T <sub>A</sub> = 25°C)	I <sub>R</sub>	-	10	μA

**MECHANICAL CHARACTERISTICS**

**CASE:** Transfer Moulded Plastic  
**POLARITY:** Terminal designation on case

Pin 1 (+) for DC output  
Pin 4 (-) for DC output  
Pins 2 and 3 (AC) for AC input.

**MOUNTING POSITION:** Any  
**WEIGHT:** 1.8 grams (approx)  
**TERMINALS:** Readily solderable connections, corrosion resistant.



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