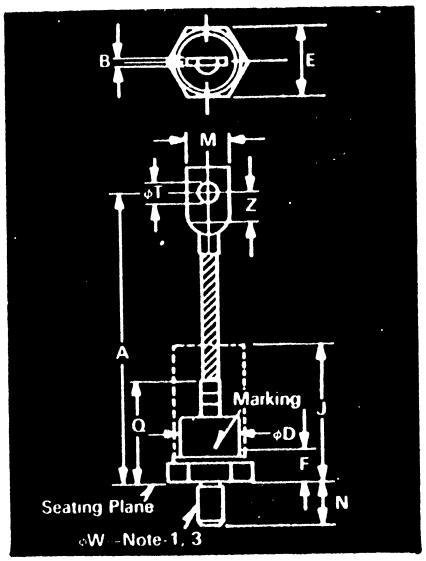
New Jersey Semi-Conductor Products, Inc.

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General Purpose Rectifiers IN4587,R - 96, R

150 A. Avg. Up to 1400 Volts

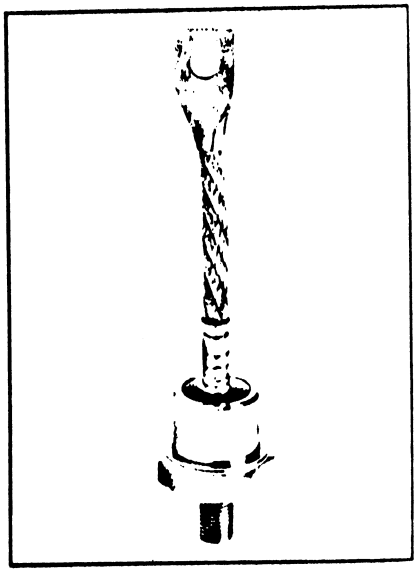


Conforms to DO-8 Outline

Symbol	Inches Min.	Inches Max.	Millimeters Min.	Millimeters Max.
A	4.18	4.62	106.17	117.35
B	.050	.100	1.27	2.54
φD	.860	1.000	21.84	25.40
E	1.031	1.063	26.19	27.00
F	.255	.400	6.48	10.16
J	2.50		63.50	
M	.437	.650	11.10	16.51
N	.605	.645	15.37	16.38
Q		1.675		42.54
φT	.250	.291	6.35	7.39
Z	.310		7.87	
φW	⅜-24 UNF-2A			

Creep & Strike—Distance:
.66 in. min. (16.94 mm). , Ceramic
.16 in. min. (4.11 mm). , Glass

1. Complete threads to extend to within 2½ threads of seating plane.
2. Angular orientation of terminal is undefined.
3. Pitch diameter of ⅜-24 UNF-2A (coated) threads (ASA B1.1-1960).
4. Dimension "J" denotes seated height with lead bent at right angle.



		1N4587	1N4588	1N4589	1N4590	1N4591	1N4592	1N4593	1N4594	● 1N4595	● 1N4596
Repetitive Peak Reverse Voltage, Volts	V_{RRM}	100	200	300	400	500	600	800	1000	1200	1400
Non-repetitive Peak Reverse Voltage, Volts	V_{RSM}	200	300	400	525	650	800	1050	1300	1600	1800
Max. Allowable d-c Blocking Voltage, Volts	V_R	100	200	300	400	500	600	800	1000	1200	1400
Max. (fca) ②, Reverse Current at Rated V_{RRM} 150 Amperes Avg. Forward Current, Single Phase @ T_C = 110°C, ma	$I_{R(AV)}$	9.5	9.5	9.0	9.0	8.0	6.5	5.5	4.5	4.0	3.5

Conducting State (T_J = 200°C)		All Types
Max. (fca) ②, Forward Current @ T_C 110°C, Amperes	$I_{F(AV)}$	150
RMS Forward Current, Amps	$I_{F(RMS)}$	236
Max. Peak ½ Cycle Surge Current (at 60 Hz) (Under Load), Amps	I_{FSM}	3,000
I^2t for Fusing (at 60 Hz Half-Wave), Amps²—Sec	I^2t	37,200
Max. Forward Voltage Drop @ 150 Amperes Average, T_C = 110°C, Peak Volts	V_{FM}	1.35
Thermal Characteristics		
Oper. Junction Temp. Range, °C	T_J	−65 to +200
Storage Temperature Range, °C	T_{stg}	−65 to +200
Max. Thermal Resistance, °C/Watt Junction to Case	$R_{\theta JC}$	.35
Case to Sink, Lubricated Mounting Surface	$R_{\theta CS}$	.15

● Ceramic Seal Supplied

Mounting: Recommended stud mounting torque, 120 in.-lbs. lubricated.

Consult recommended mounting procedures.

① Order reverse polarity units by designating R.
② Full cycle average measured with DC meter.
① Ceramic package available.

Type numbers shown have cathode connected to case, but reverse-polarity units can be obtained by adding suffix "R" to standard type number

N J S

Quality Semi-Conductors