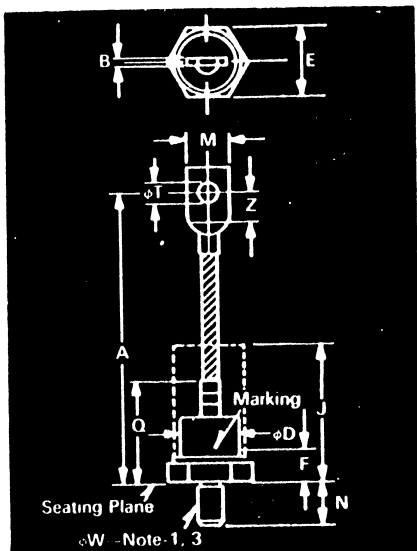


General Purpose Rectifiers IN4587,R - 96, R

150 A. Avg.
Up to 1400 Volts

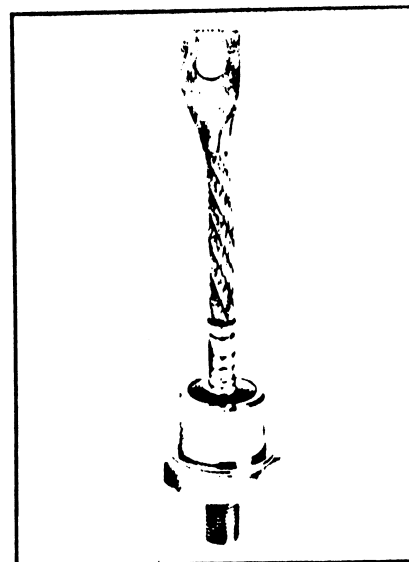


Conforms to DO-8 Outline

Symbol	Inches		Millimeters	
	Min.	Max.	Min.	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	¾-24 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 ¾-24 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 (at 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									
I²t for Fusing (at 60 Hz Half-Wave), Amps²–Sec		I²t	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 _{θJC}	.35									
Case to Sink, Lubricated Mounting Surface		R _{θCS}	.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.

① Full cycle average measured with DC meter.

① Ceramic package available.

● 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.

③ Ceramic package available.



Quality Semi-Conductors

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