

$I_{F(AV)}$ $T_c=100^\circ\text{C}$ 50% Duty Cycle, Half Sine 60 Hz (Amps)	$I_{FSM}$ (Amps) 50 Hz    60 Hz		$I^2t$ for Fusing @ 8.3 ms (A <sup>2</sup> sec)	$I_{RRM}$ @ $V_{RRM}$ and $T_J(\text{Max})$ (mA)	$V_{RRM}$ Range (Volts)	$V_{FM}$ @ $T_J=25^\circ\text{C}$ $I_{FM}$ $V_{FM}$ (Amps)    (Volts)		Chip Size (mm)	Junction Temp. Range (°C)	$R_{\theta JC}$ (°C/W)	$R_{\theta CS}$ Lubricated (°C/W)
.8	45	50	10	.3	50-1000	1	.9	—	-65 to 175	—	—
3	180	200	165	.5	50-1000	3	.9	—	-65 to 175	—	—
6	360	400	650	.5	50-1000	6	.9	—	-65 to 175	—	—
12	228	250	260	.200	50-1000	38	1.3	—	-65 to 200	2.0	—
12	228	250	260	.200	50-1000	38	1.3	—	-65 to 200	2.0	—
15*	225	250	260	5	50-600	47	1.5	—	-65 to 175	2	—
16	273	300	375	.200	50-1000	50	1.2	—	-65 to 200	1.0	—
16	273	300	375	.200	50-1000	50	1.2	—	-65 to 200	1.0	—
18*	200	220	200	5	50-600	56	2.35	—	-65 to 175	1.5	—
20*	318	350	510	5	50-200	63	1.5	—	-65 to 175	2	—
20*	318	350	510	5	50-200	63	1.5	—	-65 to 175	2	—
20*	318	350	510	5	50-200	63	1.2	—	-65 to 175	1.5	—
22*	455	500	1050	5	50-600	69	2	—	-65 to 200	1.5	—
25 $T_c=145^\circ\text{C}$	364	400	675	5	50-600	79	1.8	—	-65 to 200	1.5	—
25*	455	500	1050	5	50-1000	79	1.4	—	-65 to 200	1.5	—
25*	455	500	1050	5	50-1000	79	1.4	—	-65 to 200	1.5	—
35* $T_c=140^\circ\text{C}$	455	500	1050	5	50-600	110	1.7	—	-65 to 200	1.0	—
35* $T_c=140^\circ\text{C}$	455	500	1050	5	700-1000	110	1.7	—	-65 to 200	1.0	—
40*	728	800	2600	5	50-600	126	1.2	—	-65 to 200	1.0	—
40*	728	800	2600	5	50-1000	126	1.2	—	-65 to 200	1.0	—
40*	728	800	2600	5	50-1000	126	1.2	—	-65 to 200	1.0	—
60 $T_c=140^\circ\text{C}$	820	900	3400	5	50-1000	220	1.35	—	-65 to 190	.6	—
60 $T_c=140^\circ\text{C}$	820	900	3400	5	50-1000	220	1.27	—	-65 to 190	.6	—
60 $T_c=130^\circ\text{C}$	910	1000	4160	5	50-1000	188	1.7	—	-65 to 200	.75	—
60 $T_c=130^\circ\text{C}$	1090	1200	5600	5	50-1000	188	1.7	—	-65 to 200	.65	—
60 $T_c=110^\circ\text{C}$	728	800	2600	3	100-500	200	1.2	—	-20 to 150	.55	.20
60 $T_c=110^\circ\text{C}$	728	800	2600	3	100-500	200	1.2	—	-20 to 150	.55	.20
70 $T_c=140^\circ\text{C}$	1090	1200	6000	5	50-1000	220	1.27	—	-65 to 190	.6	—

## PACKAGE INFORMATION

IFM (Amps)	Typical Reverse Recovery Time @ $T_J=25^\circ\text{C}$		Max Mounting Force or Torque	STYLE	Outline	TYPE NO.
	dir/dt (A/ $\mu\text{sec}$ )	trr ( $\mu\text{sec}$ )				
—	—	—	—	Axial Leaded	DO-15	1N5391-5399
—	—	—	—	Axial Leaded	DO-27	1N5400-5408
—	—	—	—	Axial Leaded	R34	R340__06
36	25	1-2	$\frac{20 \text{ lb-in}}{23 \text{ kg-cm}}$	10-32 Stud	DO-4	R310__12
36	25	1-2	$\frac{20 \text{ lb-in}}{23 \text{ kg-cm}}$	10-32 Stud	DO-4	R311__12 <sup>R</sup>
100	25	2-4	$\frac{30 \text{ lb-in}}{35 \text{ kg-cm}}$	1/4-28 Stud	DO-5	1N3208-3214*
36	25	1-2	$\frac{20 \text{ lb-in}}{23 \text{ kg-cm}}$	10-32 Stud	DO-4	R310__16
36	25	1-2	$\frac{20 \text{ lb-in}}{23 \text{ kg-cm}}$	10-32 Stud	DO-4	R311__16 <sup>R</sup>
100	25	2-4	$\frac{30 \text{ lb-in}}{35 \text{ kg-cm}}$	1/4-28 Stud	DO-5	1N1191-1198
100	25	2-4	$\frac{30 \text{ lb-in}}{35 \text{ kg-cm}}$	1/4-28 Stud	DO-5	1N248A-250A*
100	25	2-4	$\frac{30 \text{ lb-in}}{35 \text{ kg-cm}}$	1/4-28 Stud	DO-5	1N248B-250B*
100	25	2-4	$\frac{30 \text{ lb-in}}{35 \text{ kg-cm}}$	1/4-28 Stud	DO-5	1N248C-250C*
100	25	2-4	$\frac{30 \text{ lb-in}}{35 \text{ kg-cm}}$	1/4-28 Stud	DO-5	1N1191A-1198A*
100	25	2-4	$\frac{30 \text{ lb-in}}{35 \text{ kg-cm}}$	1/4-28 Stud	DO-5	1N2154-2160*
100	25	2-4	$\frac{30 \text{ lb-in}}{35 \text{ kg-cm}}$	1/4-28 Stud	DO-5	R410__25
100	25	2-4	$\frac{30 \text{ lb-in}}{35 \text{ kg-cm}}$	1/4-28 Stud	DO-5	R411__25 <sup>R</sup>
100	25	2-4	$\frac{30 \text{ lb-in}}{35 \text{ kg-cm}}$	1/4-28 Stud	DO-5	1N1183-1190
100	25	2-4	$\frac{30 \text{ lb-in}}{35 \text{ kg-cm}}$	1/4-28 Stud	DO-5	1N3765-3768
100	25	2-4	$\frac{30 \text{ lb-in}}{35 \text{ kg-cm}}$	1/4-28 Stud	DO-5	1N1183A-1190A
100	25	2-4	$\frac{30 \text{ lb-in}}{35 \text{ kg-cm}}$	1/4-28 Stud	DO-5	R410__40
100	25	2-4	$\frac{30 \text{ lb-in}}{35 \text{ kg-cm}}$	1/4-28 Stud	DO-5	R411__40 <sup>R</sup>
100	25	2-4	$\frac{30 \text{ lb-in}}{35 \text{ kg-cm}}$	1/4-28 Stud	DO-5	R414__60
100	25	2-4	$\frac{30 \text{ lb-in}}{35 \text{ kg-cm}}$	1/4-28 Stud	DO-5	R415__60 <sup>R</sup>
100	25	2-4	$\frac{30 \text{ lb-in}}{35 \text{ kg-cm}}$	1/4-28 Stud	DO-5	R404__60
100	25	2-4	$\frac{30 \text{ lb-in}}{35 \text{ kg-cm}}$	1/4-28 Stud	DO-5	R405__60 <sup>R</sup>
—	—	—	$\frac{51 \text{ lb-in}}{60 \text{ kg-cm}}$	Flat Base	25 x 64 mm	°SR60L-R
—	—	—	$\frac{51 \text{ lb-in}}{60 \text{ kg-cm}}$	Flat Base	25 x 64 mm	°SR60L-S
100	25	2-4	$\frac{30 \text{ lb-in}}{35 \text{ kg-cm}}$	1/4-28 Stud	DO-5	R414__70



JEDEC DO-4



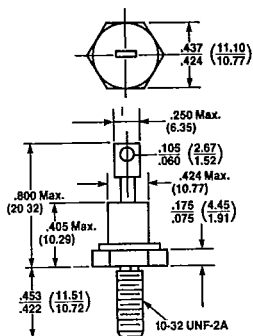
JEDEC DO-5

\* = Reverse Polarity Types Available  
 ° = Tentative Specification  
 x = Tc @ 150°C  
 R = Reverse Polarity

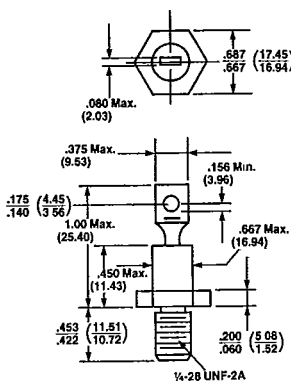
# Standard Rectifiers Outline Drawings

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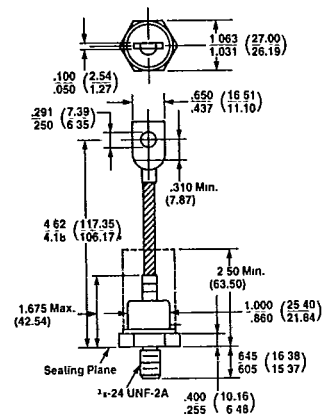
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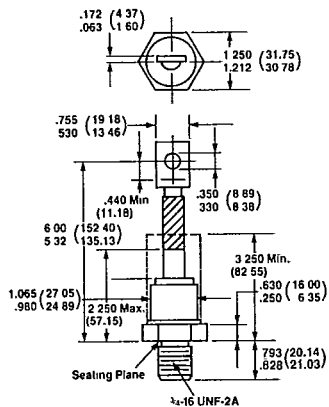
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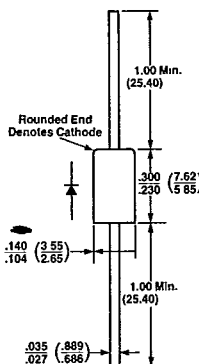
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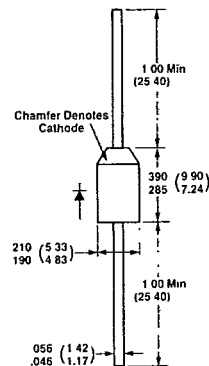
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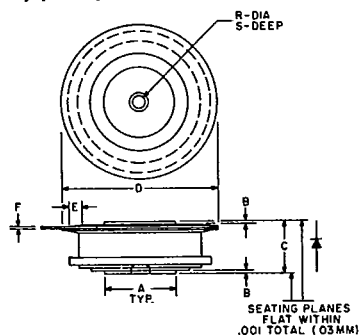
### JEDEC DO-15



### JEDEC DO-27



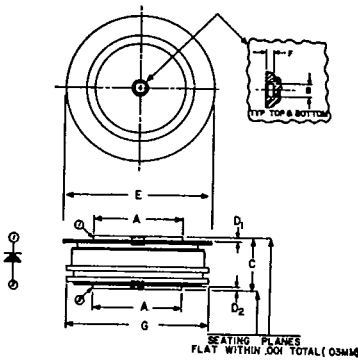
### JEDEC DO-200AA (Type 1) (A390)



Dim	Inches		Millimeters	
	Min	Max	Min	Max
A	.744	.752	18.89	19.10
B	.030	.060	.76	1.52
C	.515	.565	13.08	14.35
D	1.600	1.656	40.64	41.9
E	.110	—	2.79	—
F	.031	.017	.33	.43
R	.135	.145	3.42	3.68
S	.067	.083	1.70	2.1

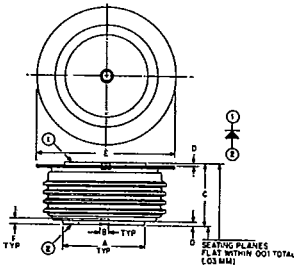
**JEDEC DO-200AA**  
(Type 2) (A330)

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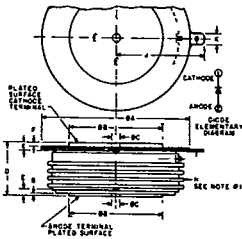
Dim	Inches		Millimeters	
	Min	Max	Min	Max
A	.985	.995	25.01	25.27
B	.135	.145	3.42	3.68
C	.560	.605	14.22	15.37
D <sub>1</sub>	.040	—	1.01	—
D <sub>2</sub>	.030	—	.76	—
E	1.600	1.650	40.64	41.91
F	.070	.085	1.77	2.16
G	—	1.585	—	40.26

**JEDEC DO-200AB**



Dim	Inches		Millimeters	
	Min	Max	Min	Max
A	1.333	1.343	33.86	34.11
B	.135	.145	3.42	3.68
C	1.018	1.065	25.85	27.05
D	.030	.110	.76	—
E	2.240	2.330	56.89	58.42
F	.070	.090	3.55	4.06

**JEDEC DO-200AC**

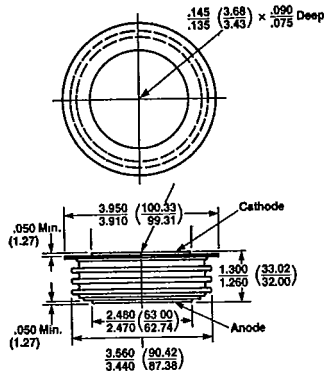


Dim	Inches		Millimeters	
	Min	Max	Min	Max
A	—	2.960	—	75.18
B	1.800	1.900	45.78	49.26
C	0.136	0.146	3.45	3.71
D	1.000	1.070	25.10	27.18
E	.070	.100	1.78	2.54
F	.030	—	0.76	—
G	.003	.067	0.13	1.70
H	—	—	—	—
J	1.630	1.710	42.67	43.43
K	.186	.189	4.72	4.80

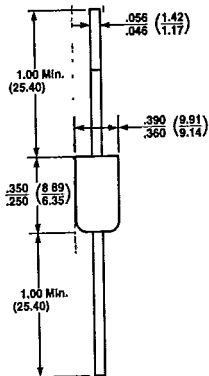
Note: Glazed ceramic insulator with 1.00-inch (25.40mm) surface creepage, minimum.

RA2

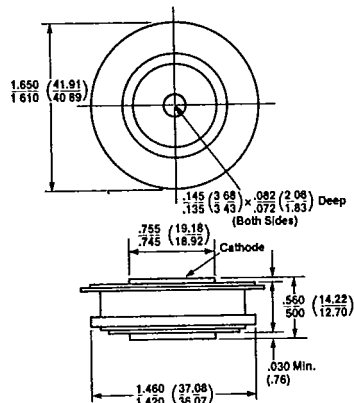
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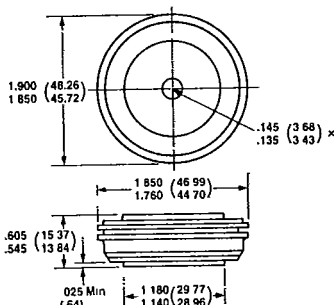
R34



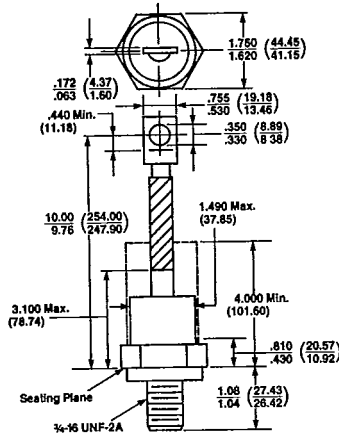
R62



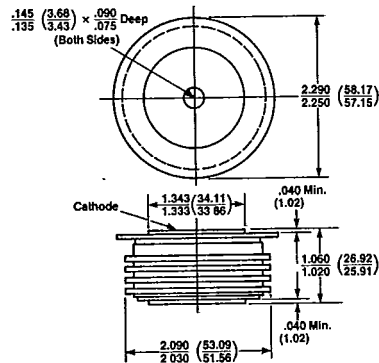
R7S



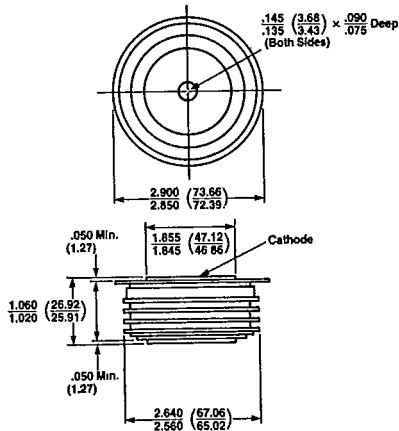
R70



R72



R9G



Press Pak—Consult Factory

- 8mm  $\times$  62mm
- 14mm  $\times$  86mm
- 14.5mm  $\times$  43mm
- 14.5mm  $\times$  50mm
- 18mm  $\times$  85mm
- 21mm  $\times$  92mm
- 21mm  $\times$  102mm
- 35mm  $\times$  120mm

Flat Base—Consult Factory

- 18mm  $\times$  85mm
- 25mm  $\times$  64mm
- 64mm  $\times$  64mm

Metric Stud—Consult Factory

- M12  $\times$  1.5
- M20  $\times$  1.5
- M24  $\times$  1.5

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