

$I_F(AV)$ $T_c=100^\circ C$ 50% Duty Cycle, Half Sine 60 Hz (Amps)	I_{FSM} (Amps) 50 Hz	I_{FSM} (Amps) 60 Hz	I^2t for Fusing @ 8.3 ms (A ² sec)	I_{RRM} @ V_{RRM} and $T_J(Max)$ (mA)	V_{RRM} Range (Volts)	V_{FM} @ $T_J=25^\circ C$ I_{FM} (Amps)	V_{FM} (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 $T_c=145^\circ C$	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* $T_c=140^\circ C$	455	500	1050	5	50-600	110	1.7	—	-65 to 200	1.0	—
35* $T_c=140^\circ C$	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 $T_c=140^\circ C$	820	900	3400	5	50-1000	220	1.35	—	-65 to 190	.6	—
60 $T_c=140^\circ C$	820	900	3400	5	50-1000	220	1.27	—	-65 to 190	.6	—
60 $T_c=130^\circ C$	910	1000	4160	5	50-1000	188	1.7	—	-65 to 200	.75	—
60 $T_c=130^\circ C$	1090	1200	5600	5	50-1000	188	1.7	—	-65 to 200	.65	—
60 $T_c=110^\circ C$	728	800	2600	3	100-500	200	1.2	—	-20 to 150	.55	.20
60 $T_c=110^\circ C$	728	800	2600	3	100-500	200	1.2	—	-20 to 150	.55	.20
70 $T_c=140^\circ C$	1090	1200	6000	5	50-1000	220	1.27	—	-65 to 190	.6	—

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Typical Reverse Recovery Time @ $T_J=25^\circ\text{C}$ I_{FM} di/dt t_{rr} (Amps) (A/ μsec) (μsec)			PACKAGE INFORMATION			
			Max Mounting Force or Torque	STYLE	Outline	TYPE NO.
—	—	—	—	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 ^R
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 ^R
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 ^R
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 ^R
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 ^R
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 ^R
—	—	—	$\frac{51 \text{ lb-in}}{60 \text{ kg-cm}}$	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

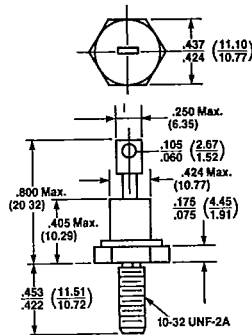


JEDEC DO-5

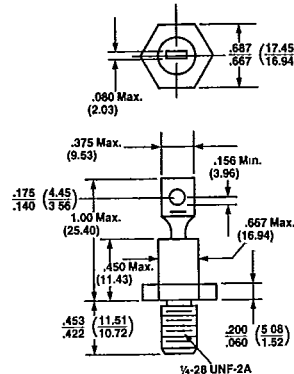
* = Reverse Polarity Types Available
 ° = Tentative Specifications
 x = $T_c @ 150^\circ\text{C}$
 R = Reverse Polarity

Standard Rectifiers Outline Drawings

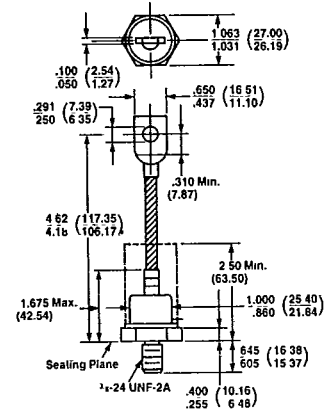
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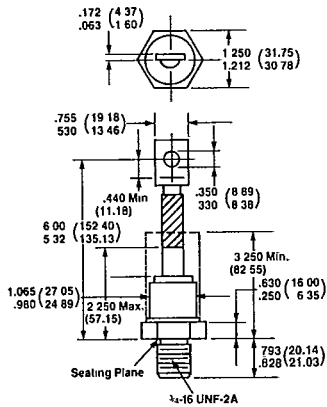
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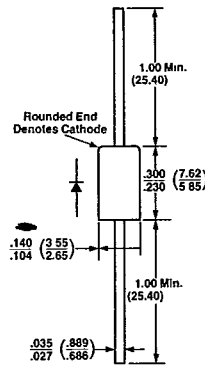
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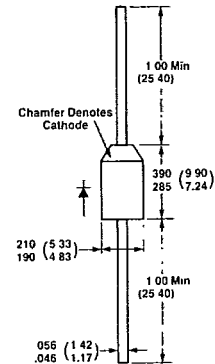
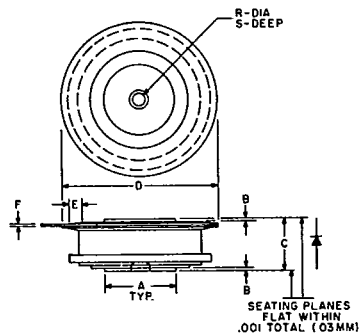
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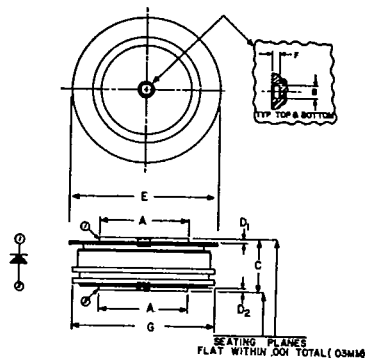
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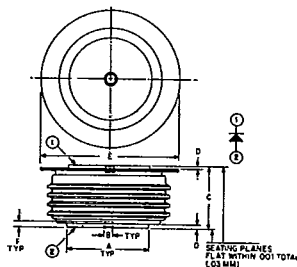
JEDEC DO-27

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

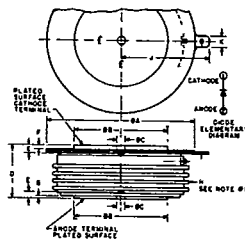
Dim	Inches		Millimeters	
	Min	Max	Min	Max
A	.744	.752	18.89	19.10
B	.030	.060	.76	1.52
C	.515	.565	13.08	14.35
D	1.600	1.656	40.64	41.9
E	.110	—	2.79	—
F	.031	.017	.33	.43
R	.135	.145	3.42	3.68
S	.067	.083	1.70	2.1

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

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 ₁	.040	—	1.01	—
D ₂	.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

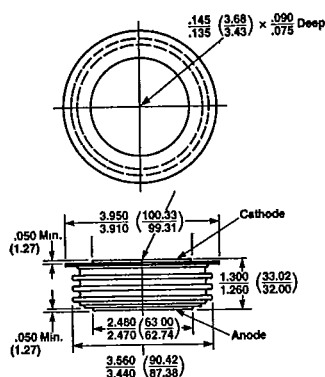
JEDEC DO-200AC

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

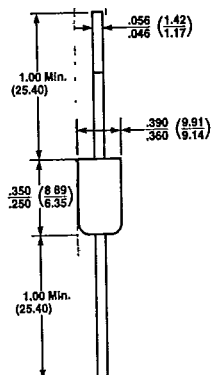
Note: Glazed ceramic insulator
with 1.00-inch (25.40mm)
surface creepage, minimum.

Standard Rectifiers Outline Drawings

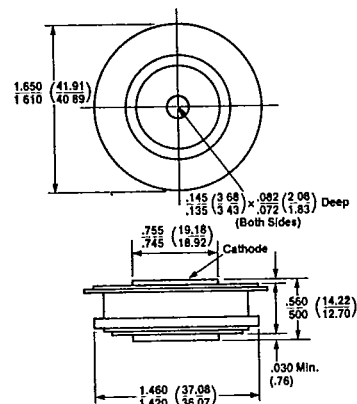
RA2



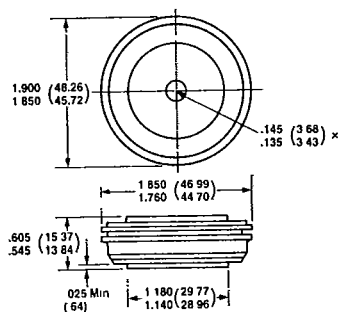
R34



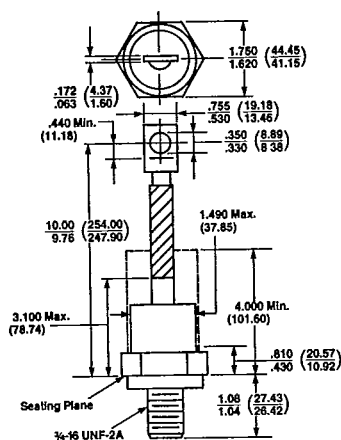
R62



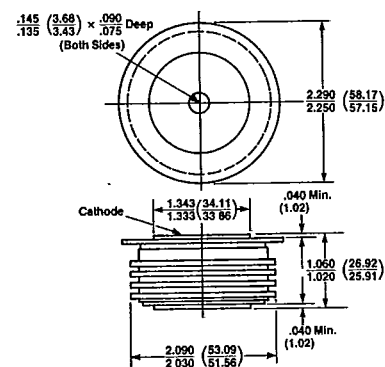
R7S



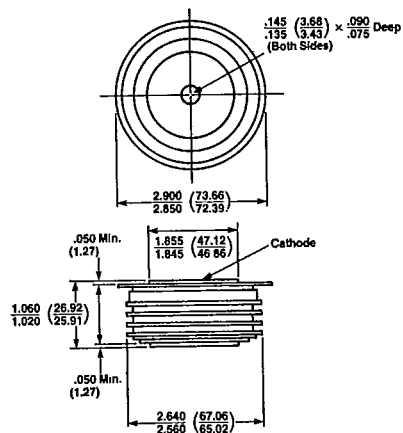
R70



R72



R9G



Press Pak—Consult Factory

8mm $\times$ 62mm
 14mm $\times$ 86mm
 14.5mm $\times$ 43 mm
 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