Standard Rectifiers

$I_{F(AV)}$ T_C=100° C 50% Duty Cycle, Half Sine 60 Hz (Amps)	I_{FSM} (Amps × 10^3) 50 Hz	60 Hz	I^2t for Fusing @8.3 ms ($A^2sec \times 10^4$)	I_{RRM} @ V_{RRM} and $T_{J(Max)}$ (mA)	V_{RRM} Range (Volts)	V_{FM} @ T_J=25°C I_{FM} (Amps)	V_{FM} (Volts)	Chip Size (mm)	Junction Temp. Range (°C)	$R_{\Theta JC}$ (°C/W)	R_{ecs} Lubricated (°C/W)
390	9.1	10	42	30	600-1200	1250	1.55	33	–40 to 150	.09	—
400 T_C=110°C	7.7	8.5	26.6	50	1400-2000	1500	1.6	33	–65 to 175	.12	.04
400 T_C=110°C	7.7	8.5	26.6	50	1400-2000	1500	1.6	33	–65 to 175	.12	.04
400 T_C=130°C	7.7	8.5	26.6	50	200-1200	1500	1.6	33	–65 to 200	.12	.04
400 T_C=130°C	7.7	8.5	26.6	50	200-1200	1500	1.6	33	–65 to 200	.12	.04
400	5.5	6	15	50	100-1200	800	1.5	23	–65 to 190	.095	.02
400	5.5	6	15	50	1400-2000	800	1.5	23	–65 to 175	.095	.02
400 T_C=128°C	9.1	10	42	30	500-1200	1250	1.4	33	–40 to 175	.09	.04
400 T_C=90°C	9.1	10	42	30	1400-3000	1250	1.55	33	–40 to 150	.09	.04
500 T_C=96°C	7.3	8	27	30	3500-4000	1600	2.1	33	–40 to 150	.06	—
500	6.4	7	20	25	100-1500	1260	1.4	22	–40 to 200	.095	—
500 T_C=135°C	9.1	10	41.7	50	200-1200	1500	1.2	33	–65 to 200	.12	.04
500 T_C=135°C	9.1	10	41.7	50	200-1200	1500	1.2	33	–65 to 200	.12	.04
500	6	6.5	17.5	50	100-1200	800	1.4	23	–65 to 190	.095	.02
500	6.4	7	20.4	50	2200-4400	1500	2.15	33	–65 to 150	.055	.02
600 T_C=90°C	9.1	10	42	30	800-3000	1900	1.85	33	–40 to 150	.06	—
600 T_C=135°C	6.4	7	20.4	50	200-1200	1500	2.15	33	–65 to 200	.055	.02
660	6.4	7	20.4	50	1400-2000	1500	2.15	33	–65 to 175	.055	.02
660	9.5	10	40	50	1600-3200	3000	1.95	30	–40 to 175	.06	.02
740	7.7	8.5	30.1	50	1400-2200	1500	1.8	33	–65 to 175	.035	.02
800	7.7	8.5	30.1	50	1400-2000	1500	1.6	33	–65 to 175	.055	.02
800	12.8	14	30	30	800-2800	2500	1.65	33	–40 to 150	.04	.02

° = Tentative Specifications
Note 1 = Available in Smaller Version of DO-200AB
R = Reverse Polarity

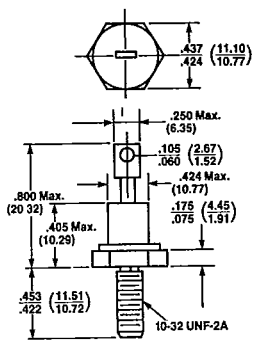
Typical Reverse Recovery Time @ $T_{J=25°C}$ I_{FM} (Amps)	di_R/dt (A/μsec)	t_{rr} (μsec)	PACKAGE INFORMATION Max Mounting Force or Torque	STYLE	Outline	TYPE NO.
—	—	—	2400 lb / 10.7 KN	Press Pak	14.5 x 50 mm	FD400DL
1500	25	11	360 lb-in / 420 kg-cm	¾-16 Stud	R70	R700__ __04
1500	25	11	360 lb-in / 420 kg-cm	¾-16 Stud	R70	R701__ __04[R]
1500	25	9	360 lb-in / 420 kg-cm	¾-16 Stud	R70	R700__ __04
1500	25	9	360 lb-in / 420 kg-cm	¾-16 Stud	R70	R701__ __04[R]
785	25	6	1400 lb / 6.2 KN	Press Pak	R62	R620__ __40
785	25	9	1400 lb / 6.2 KN	Press Pak	R62	R620__ __40
—	—	—	500 lb-in / 600 kg-cm	M24 x 1.5	Metric	°SR400EL
—	—	—	500 lb-in / 600 kg-cm	M24 x 1.5	Metric	°SR400FH
—	—	—	4000 lb / 17.1 KN	Press Pak	18 x 85 mm	FD500EV
—	—	—	800 lb / 3.56 KN	Press Pak	DO-200AA	A390
1500	25	9	360 lb-in / 420 kg-cm	¾-16 Stud	R70	R700__ __05
1500	25	9	360 lb-in / 420 kg-cm	¾-16 Stud	R70	R701__ __05[R]
785	25	6	1400 lb / 6.2 KN	Press Pak	R62	R620__ __50
1500	25	13	2400 lb / 10.7 KN	Press Pak	R72	R720__ __06
—	—	—	4000 lb / 17.1 KN	Press Pak	18 x 85 mm	°FD500E
1500	25	7	2400 lb / 10.7 KN	Press Pak	R72	R720__ __06
1500	25	10	2400 lb / 10.7 KN	Press Pak	R72	R720__ __06
—	25	10	2200 lb / 9.8 KN	Press Pak	Note 1 DO-200AB	A433
1500	25	7	2400 lb / 10.7 KN	Press Pak	R7S	R7S0__ __08
1500	25	10	2400 lb / 10.7 KN	Press Pak	R72	R720__ __09
—	—	—	4000 lb / 17.1 KN	Press Pak	18 x 85 mm	°FD1000A

R34

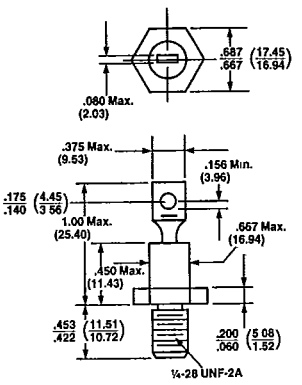
R62

Standard Rectifiers Outline Drawings

JEDEC DO-4



JEDEC DO-5



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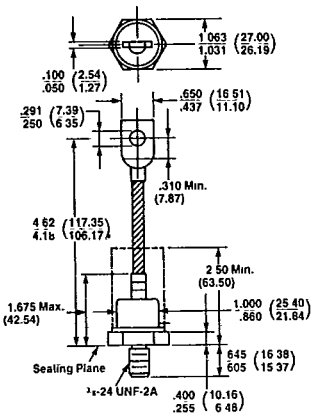

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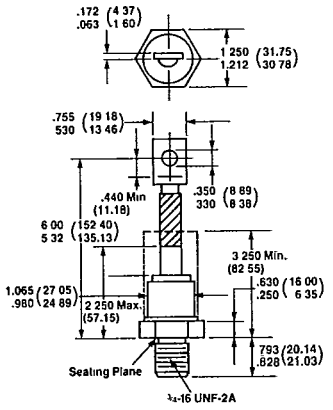

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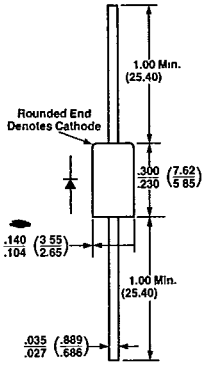
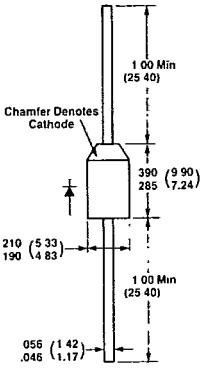
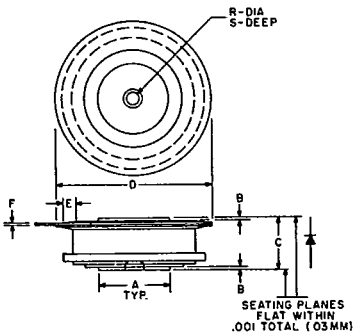


JEDEC DO-27

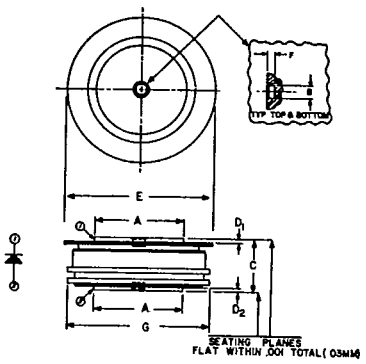


JEDEC DO-200AA (Type 1) (A390)



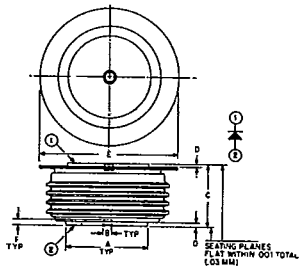
	Inches		Millimeters	
Dim	Min	Max	Min	Max
A	.744	.752	18.89	19.10
B	.030	.060	.76	1.52
C	.515	.565	13.08	14.35
D	1.600	1.656	40.64	41.9
E	.110	—	2.79	—
F	.031	.017	.33	.43
R	.135	.145	3.42	3.68
S	.067	.083	1.70	2.1

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



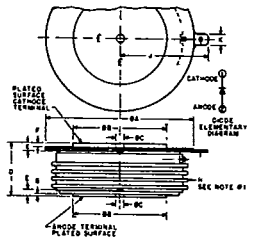
Dim	Inches Min	Inches Max	Millimeters Min	Millimeters Max
A	.985	.995	25.01	25.27
B	.135	.145	3.42	3.68
C	.560	.605	14.22	15.37
D_1	.040	—	1.01	—
D_2	.030	—	.76	—
E	1.600	1.650	40.64	41.91
F	.070	.085	1.77	2.16
G	—	1.585	—	40.26

JEDEC DO-200AB



Dim	Inches Min	Inches Max	Millimeters Min	Millimeters 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

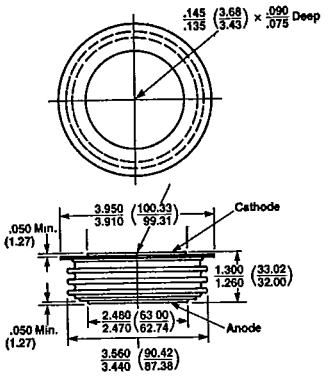


Dim	Inches Min	Inches Max	Millimeters Min	Millimeters Max
A	—	2.960	—	75.18
B	1.800	1.900	45.78	49.26
C	0.136	0.146	3.45	3.71
D	1.000	1.070	25.10	27.18
E	.070	.100	1.78	2.54
F	.030	—	0.76	—
G	.003	.067	0.13	1.70
H	—	—	—	—
J	1.630	1.710	42.67	43.43
K	.186	.189	4.72	4.80

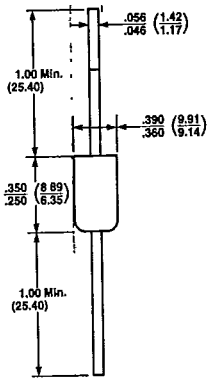
Note: *Glazed ceramic insulator with 1.00-inch (25.40mm) surface creepage, minimum.*

Standard Rectifiers Outline Drawings

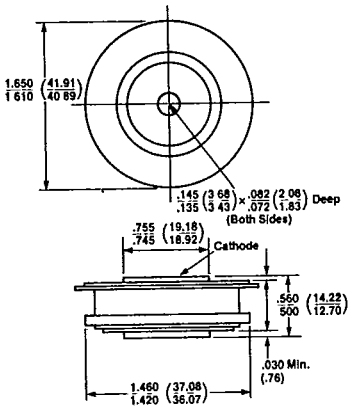
RA2



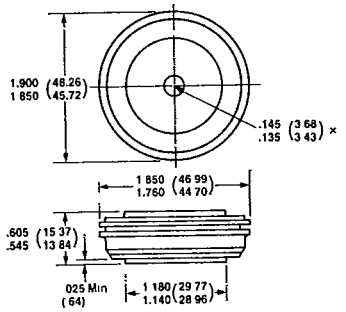
R34



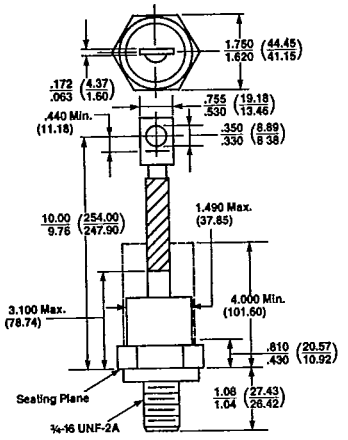
R62



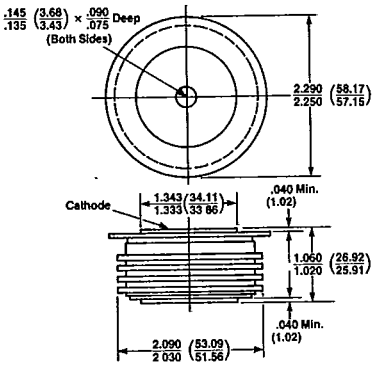
R7S



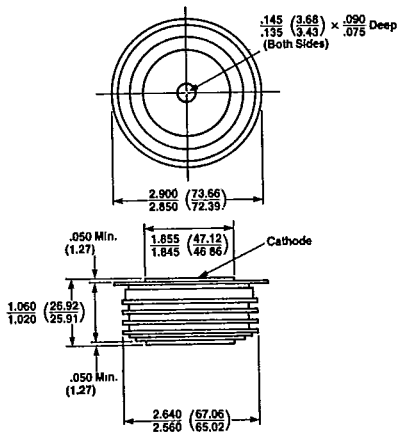
R70



R72



R9G



Press Pak—Consult Factory
8mm × 62mm
14mm × 86mm
14.5mm × 43 mm
14.5mm × 50mm
18mm × 85mm
21mm × 92mm
21mm × 102mm
35mm × 120mm

Flat Base—Consult Factory
18mm × 85mm
25mm × 64mm
64mm × 64mm

Metric Stud—Consult Factory
M12 × 1.5
M20 × 1.5
M24 × 1.5