

Fast Recovery Rectifiers

$I_{F(AV)}$ 50% Duty Cycle, Half Sine 1KHz (Amps)	I_{FSM} (Amps)		I^2t for Fusing @ 8.3 ms (A ² sec × 10 ⁴)	I_{RRM} @ V_{RRM} and $T_J(Max)$ (mA)	V_{RRM} Range (Volts)	V_{FM} @ $T_J=25^\circ C$		Chip Size (mm)	Junction Temp. Range (°C)	$R_{\theta JC}$ (°C/W)	$R_{\theta CS}$ Lubricated (°C/W)
1.4 $T_C=65^\circ C$	—	—	—	.25	50-1000	10	2	—	-65 to 150	—	—
50† $T_C=86^\circ C$	910	1000	.42	30	2000	160	3	16	-40 to 125	.30	.15
50† $T_C=86^\circ C$	910	1000	.42	30	2500	160	3	16	-40 to 125	.30	.15
100 $T_C=65^\circ C$	2000	2200	2	45	100-1200	450	4.5	16	-40 to 150	.28	.12
100 $T_C=65^\circ C$	2000	2200	2	45	100-1200	450	4.5	16	-40 to 150	.28	.12
100 $T_C=65^\circ C$	2270	2500	2.6	20	100-1500	250	1.5	18	-40 to 125	.40	.12
125 $T_C=66^\circ C$	2270	2500	2.6	45	100-1400	470	2.5	16	-40 to 150	.28	.12
125 $T_C=66^\circ C$	2270	2500	2.6	45	100-1400	470	2.5	16	-40 to 150	.28	.12
150† $T_C=65^\circ C$	2550	2800	3.2	25	100-1500	300	1.5	18	-40 to 125	.3	.12
150† $T_C=60^\circ C$	4550	5000	10	30	2000	750	3.9	23	-40 to 125	.15	.10
150† $T_C=60^\circ C$	4550	5000	10	30	2500	750	3.9	23	-40 to 125	.15	.10
175 $T_C=64^\circ C$	4550	5000	10	30	800-1600	750	2.5	23	-40 to 125	.15	.10
175 $T_C=74^\circ C$	3180	3500	5.1	45	100-1400	470	1.65	16	-40 to 150	.28	.12
175 $T_C=74^\circ C$	3180	3500	5.1	45	100-1400	470	1.65	16	-40 to 150	.28	.12
200 $T_C=58^\circ C$	4550	5000	10	30	2000-2500	750	3.5	23	-40 to 125	.12	.04
200 $T_C=86^\circ C$	3640	4000	6.7	50	4500	630	5	23	-40 to 125	.045	.02
220 $T_C=75^\circ C$	3180	3500	5.1	50	400-1200	800	2.75	23	-40 to 150	.17	.10
220 $T_C=75^\circ C$	3180	3500	5.1	50	400-1200	800	2.75	23	-40 to 150	.17	.10
240† $T_C=60^\circ C$	4550	5000	10	30	800-1600	750	2.5	23	-40 to 125	.12	.04
250 $T_C=53^\circ C$	4550	5000	10	25	100-1500	1000	1.7	22	-40 to 125	.18	.10
250 $T_C=112^\circ C$	6360	7000	20.3	25	100-1500	3000	2.8	22	-40 to 175	.18	.10
250 $T_C=82^\circ C$	4090	4500	8.5	50	400-1400	800	2	23	-40 to 150	.17	.10

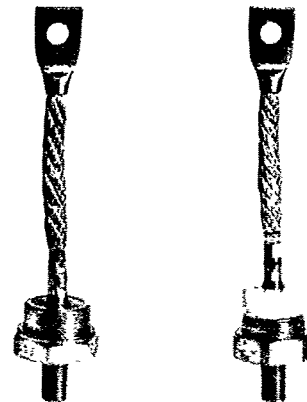
* = Frequency Not Specified

° = Tentative Specifications

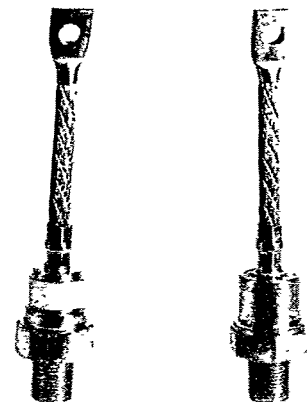
† = Single Phase 60 Hz

R = Reverse Polarity

Typical Reverse Recovery Time @ T _J =25°C			PACKAGE INFORMATION			
I _{FM} (Amps)	dI _R /dt (A/μsec)	t _{rr} (μsec)	Max Mounting Force or Torque	STYLE	Outline	TYPE NO.
—	—	.5-1.0	—	Epoxy Axial Leaded	DO-15	388A-388Z*
400	30	3	<u>154 lb-in</u> 180 kg-cm	M12 × 1.5	Metric	*SR50CH-40*
400	30	3	<u>154 lb-in</u> 180 kg-cm	M12 × 1.5	Metric	*SR50CH-50*
314	25	.3	<u>120 lb-in</u> 139 kg-cm	3/4-24 Stud	DO-8	R502__ 10
314	25	.3	<u>120 lb-in</u> 139 kg-cm	3/4-24 Stud	DO-8	R503__ 10 ^R
200	25	1.7	<u>100 lb-in</u> 116 kg-cm	3/4-24 Stud	DO-8	A177,R
314	25	.7	<u>120 lb-in</u> 139 kg-cm	3/4-24 Stud	DO-8	R502__ 13
314	25	.7	<u>120 lb-in</u> 139 kg-cm	3/4-24 Stud	DO-8	R503__ 13 ^R
400	25	1.7	<u>100 lb-in</u> 116 kg-cm	3/4-24 Stud	DO-8	A187,R
1000	30	3	<u>360 lb-in</u> 417 kg-cm	M20 × 1.5	Metric	SR200EH-40*
1000	30	3	<u>360 lb-in</u> 417 kg-cm	M20 × 1.5	Metric	SR200EH-50*
1000	30	3	<u>360 lb-in</u> 417 kg-cm	M12 × 1.5	Metric	SR200EM*
314	25	1.5	<u>120 lb-in</u> 139 kg-cm	3/4-24 Stud	DO-8	R502__ 18
314	25	1.5	<u>120 lb-in</u> 139 kg-cm	3/4-24 Stud	DO-8	R503__ 18 ^R
1000	30	3	<u>800 lbs</u> 930 KN	Press Pak	14.5 × 43 mm	FD25OCH
350	30	8	<u>1500 lbs</u> 1750 KN	Press Pak	16 × 85 mm	FD200AV
785	25	.5	<u>360 lb-in</u> 417 kg-cm	3/4-16 Stud	DO-9	R602__ 22
785	25	.5	<u>360 lb-in</u> 417 kg-cm	3/4-16 Stud	DO-9	R603__ 22 ^R
1000	30	3	<u>800 lbs</u> 930 KN	Press Pak	14.5 × 43 mm	FD25OCM
1000	25	1.7	<u>325 lb-in</u> 379 kg-cm	3/4-16 Stud	DO-9	A197,R
1000	25	2.0	<u>325 lb-in</u> 379 kg-cm	3/4-16 Stud	DO-9	A198,R
785	25	1.0	<u>360 lb-in</u> 417 kg-cm	3/4-16 Stud	DO-9	R602__ 25



JEDEC DO-8



JEDEC DO-9