

7294621 POWEREX INC
Fast Recovery Rectifiers

91 DE 7294621 0001765 5 T-03-23

$I_{F(AV)}$ 50% Duty Cycle, Half Sine 1KHz (Amps)	I_{FSM} (Amps $\times 10^3$) 50 Hz 60 Hz		t^2 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} @ $T_J=25^\circ C$ I_{FM} V_{FM} (Amps) (Volts)		Chip Size (mm)	Junction Temp. Range ($^\circ C$)	$R_{\theta JC}$ ($^\circ C/W$)	$R_{\theta CS}$ Lubricated ($^\circ C/W$)
250 $T_c=82^\circ C$	4.09	4.5	8.5	50	400-1400	800	2	23	-40 to 150	.17	.10
250 $T_c=73^\circ C$	3.35	3.5	5.1	25	100-1500	1000	3	22	-40 to 125	.095	.025
300 $T_c=74^\circ C$	3.35	3.5	5.1	50	400-1200	800	2.75	23	-40 to 150	.095	.025
300 $T_c=74^\circ C$	5.45	6	15	50	400-1400	800	1.5	23	-40 to 150	.17	.10
300 $T_c=74^\circ C$	5.45	6	15	50	400-1400	800	1.5	23	-40 to 150	.17	.10
400 $T_c=74^\circ C$	4.09	4.5	8.5	50	400-1400	800	2	23	-40 to 150	.095	.025
400 $T_c=78^\circ C$	4.54	5	10	25	100-1500	1000	2	22	-40 to 125	.095	.025
400 $T_c=113^\circ C$	6.36	7	21	25	100-1500	3000	2.8	22	-40 to 175	.095	.025
475 $T_c=90^\circ C$	6.73	7.4	22	50	1600-2600	1500	2.6	30	-40 to 150	.06	.02
500† $T_c=86^\circ C$	7.3	8	27	80	4500	1570	3.5	33	-40 to 125	.025	—
500† $T_c=61^\circ C$	7.3	8	27	50	2500-2800	1570	3	33	-40 to 125	.045	—
500 $T_c=92^\circ C$	6	6.5	17.6	50	400-2500	1500	2.25	33	-40 to 150	.055	.02
550 $T_c=72^\circ C$	5.45	6	15	50	400-1400	800	1.5	23	-40 to 150	.095	.025
600 $T_c=65^\circ C$	9.1	10	41.7	50	500-1500	3000	2.2	30	-40 to 125	.06	.02
650 $T_c=78^\circ C$	6.8	7.5	23.4	50	400-1400	1500	2.05	33	-40 to 150	.055	.02
700 $T_c=53^\circ C$	9.1	10	41.7	50	100-1500	3000	2.2	30	-40 to 125	.045	.02
700 $T_c=84^\circ C$	8.7	9.5	37.6	50	400-2500	1500	1.65	33	-40 to 150	.055	.02
700 $T_c=94^\circ C$	6	6.5	17.6	50	400-2500	1500	2.25	33	-40 to 150	.035	.02
800 $T_c=68^\circ C$	10	11	50.4	50	400-1400	1500	1.65	33	-40 to 150	.055	.02
800 $T_c=98^\circ C$	8.7	9.5	37.6	50	400-2500	1500	1.65	33	-40 to 150	.035	.02
860 $T_c=50^\circ C$	13	14.6	88.8	50	1600-2600	3000	3	40	-40 to 150	.04	.02
900 $T_c=73^\circ C$	6.8	7.5	23.4	50	400-1400	1500	2.05	33	-40 to 150	.035	.02

Note 1 = Available in Smaller Version of DO-200AB

* = Frequency Not Specified

° = Tentative Specifications

† = Single Phase 60 Hz

R = Reverse Polarity

Typical Reverse Recovery Time @ $T_J=25^\circ\text{C}$ I_{FM} (Amps) $\frac{di_r}{dt}$ (A/ μsec) t_{rr} (μsec)			PACKAGE INFORMATION			
			Max Mounting Force or Torque	STYLE	Outline	TYPE NO.
785	25	1	$\frac{360 \text{ lb-in}}{417 \text{ kg-cm}}$	$\frac{3}{4}$ -16 Stud	DO-9	R603__25 ^R
500	500	1.2	$\frac{800 \text{ lbs}}{3.56 \text{ KN}}$	Press Pak	DO-200AA	A399
785	25	.5	$\frac{1400 \text{ lbs}}{6.25 \text{ KN}}$	Press Pak	R62	R622__30
785	25	2	$\frac{360 \text{ lb-in}}{417 \text{ kg-cm}}$	$\frac{3}{4}$ -16 Stud	DO-9	R602__35
785	25	2	$\frac{360 \text{ lb-in}}{417 \text{ kg-cm}}$	$\frac{3}{4}$ -16 Stud	DO-9	R603__35 ^R
785	25	1	$\frac{1400 \text{ lbs}}{6.25 \text{ KN}}$	Press Pak	R62	R622__40
1000	25	1.7	$\frac{800 \text{ lbs}}{3.56 \text{ KN}}$	Press Pak	DO-200AA	A397
1260	25	2	$\frac{800 \text{ lbs}}{3.56 \text{ KN}}$	Press Pak	DO-200AA	A398
2000	25	5	$\frac{2000 \text{ lbs}}{8.9 \text{ KN}}$	Press Pak	DO-200AB	A432
500	30	10	$\frac{5300 \text{ lbs}}{23.6 \text{ KN}}$	Press Pak	21 x 92 mm	^o FD500GV*
500	30	5.5	$\frac{3300 \text{ lbs}}{14.7 \text{ KN}}$	Press Pak	16 x 85 mm	^o FD500GH*
1500	25	2	$\frac{2400 \text{ lbs}}{10.7 \text{ KN}}$	Press Pak	R72	R722__05
785	25	2	$\frac{1400 \text{ lbs}}{6.25 \text{ KN}}$	Press Pak	R62	R622__55
1000	25	3.5	$\frac{2000 \text{ lbs}}{8.9 \text{ KN}}$	Press Pak	DO-200AB	A437
1500	25	1	$\frac{2400 \text{ lbs}}{10.7 \text{ KN}}$	Press Pak	R72	R722__06
1000	25	3.5	$\frac{2000 \text{ lbs}}{8.9 \text{ KN}}$	Press Pak	DO-200AA	A337
1500	25	3	$\frac{2400 \text{ lbs}}{10.7 \text{ KN}}$	Press Pak	R72	R722__07
1500	25	2	$\frac{2400 \text{ lbs}}{10.7 \text{ KN}}$	Press Pak	R7S	R7S2__07
1500	25	2	$\frac{2400 \text{ lbs}}{10.7 \text{ KN}}$	Press Pak	R72	R722__08
1500	25	3	$\frac{2400 \text{ lbs}}{10.7 \text{ KN}}$	Press Pak	R7S	R7S2__08
1000	50	5	$\frac{3500 \text{ lbs}}{15.6 \text{ KN}}$	Press Pak	DO-200AB	A442
1500	25	1	$\frac{2400 \text{ lbs}}{10.7 \text{ KN}}$	Press Pak	R7S	R7S2__09

JEDEC DO-15



R62



R72



R7S



JEDEC DO-200AA



JEDEC DO-200AB/DO-200AC