

Phase Control Thyristors (SCRs)

$I_T(AV)$ $T_c=65^\circ\text{C}$ 50% Duty Cycle, Half Sine (Amps)	I_{TSM} (Amps)		I_{DRM}/I_{RRM} @ Rated V_{DRM}/V_{RRM} and $T_{J(Max)}$ (mA)	I^2t for Fusing @ 8.3 ms (A ² sec)	V_{DRM}/V_{RRM} Range (Volts)	V_{TM} @ I_{TM} and $T_c=25^\circ\text{C}$ I_{TM} (Amps)	V_{TM} (Volts)	Chip Size (mm)	Junction Temp. Range ($^\circ\text{C}$)	$R_{\theta JC}$ ($^\circ\text{C}/\text{W}$)	Typical t_q @ $T_{J(Max)}$ (μsec)
6 @ 101°C	170	200	2	166	400	20	1.4	—	-40 to 125	1.8	—
6 @ 85°C	78	90	2	33.6	400-600	20	1.7	—	-40 to 125	3	—
6.4	82	90	.5	33.6	25-600	20	1.95	—	-40 to 100	2 to 3	—
6.4	82	90	.5	33.6	25-600	20	1.95	—	-40 to 100	2	—
6.5	113	125	3 to 22.5	65	25-500	10	1.6	—	-40 to 100	1.3	50
6.5	113	125	6	65	500-700	50	2.9	—	-40 to 125	2.5	50
8 @ 88°C	104	120	2	60	400-600	20	1.4*	—	-40 to 125	3	—
10	113	125	4 to 13	65	25-800	30	2.25	—	-40 to 105	1.5	—
10 @ 92°C	113	125	3 to 22.5	65	25-500	10	1.6	—	-40 to 125	1.3	50
11	136	150	1.5 to 6.5	93.4	50-1200	31.4	2.3	—	-40 to 125	1.5	75
13	218	240	5	239	50-600	239	1.7	—	-40 to 100	1.6	—
14.5	226	250	1.5 to 6.5	259	50-1200	50	2.3	—	-40 to 125	1.5	75
16	226	250	1	259	25-600	100	1.9	—	-40 to 100	1.0	—
16	226	250	1	259	25-600	100	1.9	—	-40 to 100	1.0	—
16	226	250	1	259	25-600	100	1.9	—	-40 to 100	1.0	—
16	226	250	1	259	25-600	100	1.9	—	-40 to 100	1.0	—
16	136	150	4 to 13	93.4	25-800	50	2	—	-65 to 125	1.7	—
16	205	225	4.5 to 13	210	25-700	50	2	—	-65 to 150	1.7	75
18	327	360	1.5 to 6.5	538	50-1200	69	2.3	—	-40 to 125	1.5	75
21	226	250	1	259	100-600	69	1.85	—	-40 to 100	1.0	—
21	226	250	1	259	100-600	69	1.85	—	-40 to 100	1.0	—

* = Typical Value

° = Other Packages Available, Contact Factory

x = Rating @ $T_{J(Max)}$

Typical ton (μ sec)	Min di/dt @ $T_J(\text{Max})$ Repetitive on-state (A/ μ sec)	Min dv/dt @ $T_J(\text{Max})$ (V/ μ sec)	Max VGT (V)	Max IGT (mA)	PACKAGE INFORMATION			
					Max Mounting Force or Torque	STYLE	Outline	TYPE NO.
—	—	—	1.5	30	—	Flat Pak	TO-220	CR6AM
—	—	—	1.3	20	—	Flat Pak	TO-220	CR6CM
—	50-100	50*	2	40	$\frac{25 \text{ lb-in}}{29 \text{ kg-cm}}$	Non-Isolated Stud	—	°C220
—	50-100	50*	2	40	$\frac{800 \text{ lb}}{3.6 \text{ KN}}$	Press Fit	—	C222
—	10	—	3.5	150	$\frac{30 \text{ lb-in}}{35 \text{ kg-cm}}$	¼-28 Stud	TO-48	C36
—	—	—	1.75	30	—	Flat Pak	TO-220	CR8AM
—	20	—	3.5	150	$\frac{30 \text{ lb-in}}{35 \text{ kg-cm}}$	¼-28 Stud	TO-48	C37
3	25	50*	3.5	80 @25°C	$\frac{30 \text{ lb-in}}{35 \text{ kg-cm}}$	¼-28 Stud	TO-48	2N1842-1850
3	25	100	3.5	80 @25°C	$\frac{30 \text{ lb-in}}{35 \text{ kg-cm}}$	¼-28 Stud	TO-48	2N1842A-1850A
—	150	50	3	40-80	$\frac{30 \text{ lb-in}}{35 \text{ kg-cm}}$	¼-28 Stud	TO-48	T400__ 10
—	40-60	200	2.5	75	$\frac{800 \text{ lb}}{3.6 \text{ KN}}$	Press Fit/Stud	—	2N5164-5171
—	100	100	3	40-80	$\frac{30 \text{ lb-in}}{35 \text{ kg-cm}}$	¼-28 Stud	TO-48	T400__ 16
—	40-100	200*	2	40	$\frac{25 \text{ lb-in}}{29 \text{ kg-cm}}$	Non-Isolated Stud	—	°C230
—	40-100	200*	2	40	$\frac{800 \text{ lb}}{3.6 \text{ KN}}$	Press Fit	—	C232
—	40-100	200*	2	20	$\frac{25 \text{ lb-in}}{29 \text{ kg-cm}}$	Non-Isolated Stud	—	°C231
—	40-100	200*	2	20	$\frac{800 \text{ lb}}{3.6 \text{ KN}}$	Press Fit	—	C233
—	10	50*	3	80	$\frac{30 \text{ lb-in}}{35 \text{ kg-cm}}$	Non-Isolated Stud	—	2N681-692
—	150	50	3	40-80	$\frac{30 \text{ lb-in}}{35 \text{ kg-cm}}$	¼-28 Stud	TO-48	T400__ 22
—	15-100	10-25	3	80	$\frac{30 \text{ lb-in}}{35 \text{ kg-cm}}$	¼-28 Stud	TO-48	C35
—	150	50	3	80	$\frac{800 \text{ lb}}{3.6 \text{ KN}}$	Press Fit	—	2N3870-3873
—	150	50	3	80	$\frac{25 \text{ lb-in}}{29 \text{ kg-cm}}$	Non-Isolated Stud	—	2N3896-3899



Modified TO-65



JEDEC TO-83