

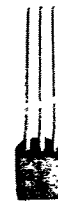
Phase Control Thyristors (SCRs)

$I_T(AV)$ $T_c=65^\circ C$ 50% Duty Cycle, Half Sine (Amps)	I_{TSM} (Amps) 50 Hz	I_{TSM} (Amps) 60 Hz	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 $T_c=25^\circ C$ I_{TM} (Amps)	V_{TM} (Volts)	Chip Size (mm)	Junction Temp. Range ($^\circ C$)	$R_{\theta JC}$ ($^\circ C/W$)	Typical t_q @ $T_J(Max)$ (μsec)
16	272	300	1.7 to 3.3	374	600-1200	69	2.3	—	-40 to 125	1.5	75
22	272	300	3	374	50-600	100	1.9	—	-40 to 125	1.7	—
22	272	300	3	374	50-600	100	1.9	—	-40 to 125	1.7	—
23	272	300	1.7 to 4	374	500-1200	70	2.3	—	-65 to 125	1.0	100
25	136	150	3 to 10	93	25-500	50	2	—	-65 to 150	1.5	24
40 @ $105^\circ C$	910	1000	6 to 12	4150	100-1200	500	3	12	-40 to 125	.35	125
40 @ $85^\circ C$	1090	1200	10	6000	700-1600	500	3.7	16	-40 to 125	.28	100
50 @ $85^\circ C$	1090	1200	10	6000	50-600	500	3.5	16	-40 to 125	.28	100
52 @ $75^\circ C$	910	1000	10	4150	25-1200	500	3.1	—	-40 to 125	.4	80
52 @ $75^\circ C$	910	1000	10	4150	25-1200	500	3.1	—	-40 to 125	.4	80
70	910	1000	12-20	4150	25-400	500	2.3	16	-40 to 125	.4	100
70	910	1000	10	4150	25-1200	500	2.5	12	-40 to 125	.4	80
70	910	1000	10	4150	25-1200	500	2.5	12	-40 to 125	.4	80
70	910	1000	10-20	4150	50-600	500	2.3	16	-40 to 125	.40	100
70 @ $80^\circ C$	1400	1500	5 to 10	9340	500-1300	500	2.6	18	-40 to 125	.3	100
70 @ $80^\circ C$	1400	1500	5 to 10	9340	500-1300	500	2.6	18	-40 to 125	.3	100
70	910	1000	10	4150	500-600	500	2.3	16	-40 to 125	.4	100
70 @ $85^\circ C$	1450	1600	10	10,700	100-1400	500	2.5	16	-40 to 125	.28	100
70 @ $85^\circ C$	1450	1600	10	10,700	100-1400	500	2.5	16	-40 to 125	.28	100
80	1450	1600	10	6000	50-600	500	3.5	16	-40 to 125	.28	100
80	1640	1800	10	13,500	700-1600	500	2.2	16	-40 to 125	.28	100

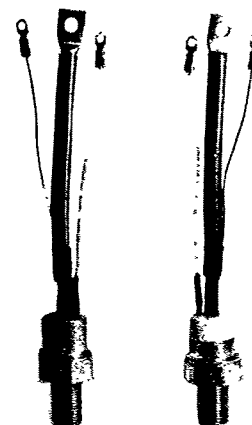
* = $25^\circ C$ Rating

° = Other Packages Available, Contact Factory

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 V _{GT} (V)	Max I _{GT} (mA)	PACKAGE INFORMATION		STYLE	Outline	TYPE NO.
					Max Mounting Force or Torque				
—	100	100	3	40-80	$\frac{30 \text{ lb-in}}{35 \text{ kg-cm}}$		1/4-28 Stud	TO-48	2N5204-5207
—	30-100	—	3	80	$\frac{25 \text{ lb-in}}{29 \text{ kg-cm}}$	Non-Isolated	Stud	—	°C228
—	30-100	—	3	80	$\frac{800 \text{ lb}}{3.6 \text{ KN}}$	Press Fit	—	—	C229
—	75-150	100	3	80	$\frac{30 \text{ lb-in}}{35 \text{ kg-cm}}$		1/4-28 Stud	TO-48	C137
1.4	80	20	3	80	$\frac{30 \text{ lb-in}}{35 \text{ kg-cm}}$		1/4-28 Stud	TO-48	C38
—	100-200	200	3.5	300	$\frac{30 \text{ lb-in}}{35 \text{ kg-cm}}$		1/4-28 Stud	Modified TO-65	C147
4	800	300	3*	150*	$\frac{130 \text{ lb-in}}{152 \text{ kg-cm}}$		1/2-20 Stud	TO-94 TO-83	T500__40
4	100	300	3*	150*	$\frac{130 \text{ lb-in}}{152 \text{ kg-cm}}$		1/2-20 Stud	TO-94 TO-83	T510__50
—	100	200	3	130	$\frac{130 \text{ lb-in}}{152 \text{ kg-cm}}$		1/2-20 Stud	TO-83	C45
—	100	200	3	130	$\frac{130 \text{ lb-in}}{152 \text{ kg-cm}}$		1/2-20 Stud	TO-94	C46
4	200	200	3*	75*	$\frac{130 \text{ lb-in}}{152 \text{ kg-cm}}$		1/2-20 Stud	TO-94	2N1909-1916
—	100-200	200	3	130	$\frac{130 \text{ lb-in}}{152 \text{ kg-cm}}$		1/2-20 Stud	TO-94	C50
—	100-200	200	3	130	$\frac{130 \text{ lb-in}}{152 \text{ kg-cm}}$		1/2-20 Stud	TO-83	C52
4	200	200	3*	75*	$\frac{130 \text{ lb-in}}{152 \text{ kg-cm}}$		1/2-20 Stud	TO-83	2N1792-1800
—	500	200	3	200	$\frac{130 \text{ lb-in}}{152 \text{ kg-cm}}$		1/2-20 Stud	TO-94	C150
—	500	200	3	200	$\frac{130 \text{ lb-in}}{152 \text{ kg-cm}}$		1/2-20 Stud	TO-83	C152
4	800	300	3*	70*	$\frac{130 \text{ lb-in}}{152 \text{ kg-cm}}$		1/2-20 Stud	TO-94	2N1805-1806
4	800	100	3*	250*	$\frac{130 \text{ lb-in}}{152 \text{ kg-cm}}$		1/2-20 Stud	TO-94	2N4361-4368
4	800	100	3*	250*	$\frac{130 \text{ lb-in}}{152 \text{ kg-cm}}$		1/2-20 Stud	TO-83	2N4371-4378
4	100	300	3*	70 to 150*	$\frac{130 \text{ lb-in}}{152 \text{ kg-cm}}$		1/2-20 Stud	TO-83/ TO-94	T510__80
4	800	300	3*	100 to 150*	$\frac{130 \text{ lb-in}}{152 \text{ kg-cm}}$		1/2-20 Stud	TO-83	T500__80



JEDEC TO-92



JEDEC TO-93