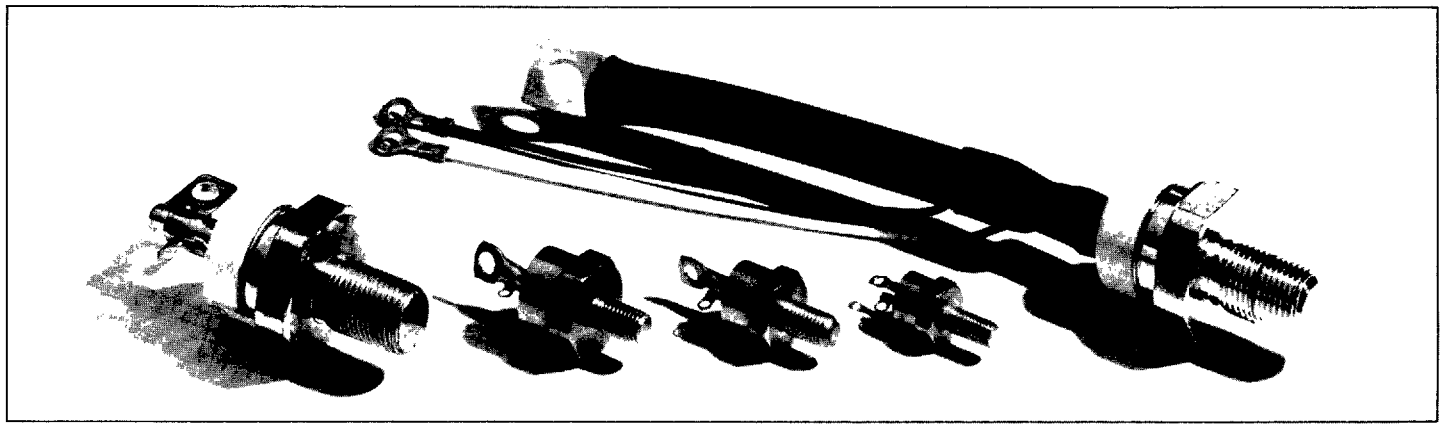
PHASE CONTROL SCRs



NATIONAL TYPE NO.			C15	C36	NL511	C37		C35	C38	
JEDEC NO.				2N1844-50			2N683-92			2N5204-07
RMS on state current (A) max.			8	16	16	25	25	35	35	35
VOLTAGE RANGE			100-600	100-800	800-1400	100-800	100-800	100-1000	100-500	600-1200
$I_{T(AV)}$ Amps @ 180° conduction @ Tc			5 @54°	10 @ 54°	10 @ 70°	16 @ 35°	16 @ 65°	22.3 @ 66°	22.3 @ 90°	22.3 @ 40°
I_{TSM} Peak one cycle surge current (A)			60	175	200	175	150	225	200	300
I^2t For fusing at = 1.5 msec (A^2sec)			15	125	160	125	90	160	160	260
V_{TM} Max. peak on-state volts @ peak amps., T_J = 25°C			1.85 @15	2.7 @ 50	2.7 @ 50	2 25 @ 30	2.0 @ 50	2.0 @ 50	2.0 @ 50	2.3 @ 70
di/dt Max. rate-of-current rise (A/μsec)			—	100	100	100	100	150	100	150
dv/dt Min. rate-of-voltage rise (V/μsec)			—	100	200	100	100	200	100	200
I_{GT} Max. gate trigger current (MA) @ 25°C			25	80	80	80	40	40	40	40
V_{GT} Max. gate trigger voltage (V) @ 25°C			2.5	3.0	2.5	3.0	2.5	2.5	2.5	3.0
$R_{\theta JC}$ Max. thermal resistance, junction-to-case (°C/W)			3.1	1 3	1.0	1.3	1.7	1.0	1.0	1 0
T_J Max. junction operating temperature (°C)			105	100	100	105	125	125	150	125
	100	A	C15A	C36A 2N1845		C37A	2N683	C35A	C38A	
	150	G	C15G	C36G			2N684	C35G	C38G	
	200	B	C15B	C36B 2N1846		C37B	2N685	C35B	C38B	
REPETITIVE PEAK	250	H		C36H 2N1847			2N686	C35H	C38H	
FORWARD (V_{DRM})	300	C	C15C	C36C 2N1848		C37C	2N687	C35C	C38C	
AND	400	D	C15D	C36D 2N1849		C37D	2N688	C35D	C38D	
REPETITIVE PEAK	500	E	C15E	C36E 2N1850		C37E	2N689	C35E	C38E	
REVERSE	600	M	C15M	C36M		C37M	2N690	C35M		2N5204
(V_{RRM})	700	S		C36S		C37S	2N691	C35S		
VOLTAGE	800	N		C36N	NL511-3	C37N	2N692	C35N		2N5205
	900	T						C35T		
	1000	P			NL511-4			C35P		2N5206
	1100	PA								
	1200	PB			NL511-6					2N5207
	1400	PD			NL511-8					
Stud Torque (in-lbs.)			15	30	30	30	30	30	30	30
Package Type			10-32 Stud	¼" stud	¼" stud	¼" stud	¼" stud	¼" stud	¼" stud	¼" stud
Package Outline Number			TO-64	TO-48	TO-48	TO-48	TO-48	TO-48	TO-48	TO-48