

PHASE CONTROL SCRs

NATIONAL TYPE NO.	C137	C147	NL-578 NL-579	C45 C46	C50	C52	C50X500 C52X500	C60 C62	
JEDEC NO.					2N1911-16 2N1805-07	2N1793- 1804		2N2025-30	
RMS on state current (A) max.	35	63	63	80	110	110	110	110	
VOLTAGE RANGE	500-1200	100-1200	100-1200	100-1200	100-1200	100-1200	100-700	100-500	
I_{T(AV)} Amps @ 180° conduction @ T_c	22.3 @ 66°	40 @ 102°	40 @ 102°	62 @ 75°	70 @ 62°	70 @ 62°	70 @ 95°	70 @ 83°	
I_{TSM} Peak one cycle surge current (A)	160	1000	1000	800	1000	1000	1500	1000	
I_{FT} For fusing at 8.3 msec (A²sec)	340	4150	4150	2600	4150	4150	9340	4150	
V_{TM} Max. peak on-state volts @ peak amps., T_j = 25°C	2.3 @ 70	3.0 @ 500	3.0 @ 500	3.1 @ 500	2.5 @ 500	2.5 @ 500	1.8 @ 500	2.5 @ 500	
di/dt Max. rate-of-current rise (A/μsec)	150	100	100	100	100	100	100	30	
dv/dt Min. rate-of-voltage rise (V/μsec)	200	200	50/200	100	200	200	200	30 TYP	
I_{GT} Max. gate trigger current (mA) @ 25°C	40	150	150	75	75	75	150	70	
V_{GT} Max. gate trigger voltage (V) @ 25°C	2.2	3.0	3.0	2.5	2.5	2.5	3.0	2.5	
R_{θJC} Max. thermal resistance, junction-to-case (°C/W)	1.0	.35	.35	.4	.4	.4	.3	.3	
T_J Max. junction operating temperature (°C)	125	125	125	125	125	125	120	150	
	100 A	C137A	C147A	NL-578A NL-579A	C45A C46A	2N1911 C50A	2N1793 C52A	C50AX500 C52AX500	2N2025 C62A
	150 G	C137G			C45G C46G	2N1912 C50G	2N1794 C52G		2N2026 C62G
	200 B	C137B	C147B	NL-578B NL-579B	C45B C46B	2N1913 C50B	2N1795 C52B	C50BX500 C52BX500	2N2027 C62B
	250 H	C137H			C45H C46H	2N1914 C50H	2N1796 C52H		2N2028 C62H
REPETITIVE PEAK FORWARD (V _{DRM})	300 C	C137C	C147C	NL-578C NL-579C	C45C C46C	2N1915 C50C	2N1797 C52C	C50CX500 C52CX500	2N2029 C62C
	400 D	C137D	C147D	NL-578D NL-579D	C45D C46D	2N1916 C50D	2N1798 C52D	C50DX500 C52DX500	2N2030 C62D
AND	500 E	C137E	C147E	NL-578E NL-579E	C45E C46E	2N1805 C50E	2N1799 C52E	C50EX500 C52EX500	C60E C62E
REPETITIVE PEAK REVERSE (V _{RRM}) VOLTAGE	600 M	C137M	C147M	NL-578M NL-579M	C45M C46M	2N1806 C50M	2N1800 C52M	C50MX500 C52MX500	
	700 S	C137S	C147S	NL-578S NL-579S	C45S C46S	2N1807 C50S	2N1801 C52S	C50SX500	
	800 N	C137N	C147N	NL-578N NL-579N	C45N C46N	C50N	2N1802 C52N		
	900 T	C137T	C147T	NL-578T NL-579T	C45T C46T	C50T	2N1803 C52T		
	1000 P	C137P	C147P	NL-578P NL-579P	C45P C46P	C50P	2N1804 C52P		
	1100 PA	C137PA	C147PA	NL-578PA NL-579PA	C45PA C46PA	C50PA	C52PA		
	1200 PB	C137PB	C147PB	NL-578PB NL-579PB	C45PB C46PB	C50PB	C52PB		
Stud Torque (in-lbs)	30	30	30	150	150	150	150	150	
Package Type	¼" stud	¼" stud	¼" stud	½" stud	½" stud	½" stud	½" stud	½" stud	
Package Outline Number	TO-48	TO-65	TO-65	TO-83, 94	TO-94	TO-83	TO-94, 83	TO-94, 83	

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