

PHASE CONTROL SCRs

NATIONAL TYPE NO.	C150 C152	C150X8 C152X8	C150X10 C152X10	C150X11 C152X11	C150X12 C152X12	C350	C178	C180	
JEDEC NO.									
RMS on state current (A) max.	110	157	180	200	210	175	200	235	
VOLTAGE RANGE	500-1400	100-1400	100-1400	100-1400	100-1400	100-1300	100-1400	100-1300	
I_{T(AV)} Amps @ 180° conduction @ T_c	70 @ 90°	100 @ 70°	114 @ 77°	126 @ 80°	132 @ 78°	112 @ 88°	127 @ 80°	150 @ 88°	
I_{TM} Peak one cycle surge current (A)	1800	2000	2200	2500	2500	1800	2500	3500	
I²t For fusing at 8.3 msec (A²sec)	13000	16000	20000	25000	25000	13000	25000	50000	
V_{TM} Max. peak on-state volts @ peak amps., T_j = 25°C	2.6 @ 500	2.2 @ 500	1.9 @ 500	1.65 @ 500	1.6 @ 500	2.6 @ 500	3.5 @ 1500	2.85 @ 1500	
di/dt Max. rate-of-current rise (A/μsec)	100	100	100	100	100	100	100	100	
dv/dt Min. rate-of-voltage rise (V/μsec)	200	200	200	200	200	200	200	200	
I_{GT} Max. gate trigger current (mA) @ 25°C	150	150	150	150	150	150	300	150	
V_{GT} Max. gate trigger voltage (V) @ 25°C	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
R_{θJC} Max. thermal resistance, junction-to-case (°C/W)	.2	2	.2	.2	.2	.13	.17	.14	
T_J Max junction operating temperature (°C)	125	125	125	125	125	125	125	125	
100 A		C150AX8 C152AX8	C150AX10 C152AX10	C150AX11 C152AX11	C150AX12 C152AX12	C350A	C178A	C180A	
200 B		C150BX8 C152BX8	C150BX10 C152BX10	C150BX11 C152BX11	C150BX12 C152BX12	C350B	C178B	C180B	
300 C		C150CX8 C152CX8	C150CX10 C152CX10	C150CX11 C152CX11	C150CX12 C152CX12	C350C	C178C	C180C	
400 D		C150DX8 C152DX8	C150DX10 C152DX10	C150DX11 C152DX11	C150DX12 C152DX12	C350D	C178D	C180D	
500 E		C150E C152E	C150EX8 C152EX8	C150EX10 C152EX10	C150EX11 C152EX11	C150EX12 C152EX12	C350E	C178E	C180E
600 M FORWARD (V _{DRM})		C150M C152M	C150MX8 C152MX8	C150MX10 C152MX10	C150MX11 C152MX11	C150MX12 C152MX12	C350M	C178M	C180M
700 S AND		C150S C152S	C150SX8 C152SX8	C150SX10 C152SX10	C150SX11 C152SX11	C150SX12 C152SX12	C350S	C178S	C180S
800 N REPETITIVE PEAK REVERSE (V _{RRM}) VOLTAGE		C150N C152N	C150NX8 C152NX8	C150NX10 C152NX10	C150NX11 C152NX11	C150NX12 C152NX12	C350N	C178N	C180N
900 T		C150T C152T	C150TX8 C152TX8	C150TX10 C152TX10	C150TX11 C152TX11	C150TX12 C152TX12	C350T	C178T	C180T
1000 P		C150P C152P	C150PX8 C152PX8	C150PX10 C152PX10	C150PX11 C152PX11	C150PX12 C152PX12	C350P	C178P	C180P
1100 PA		C150PA C152PA	C150PAX8 C152PAX8	C150PAX10 C152PAX10	C150PAX11 C152PAX11	C150PAX12 C152PAX12	C350PA	C178PA	C180PA
1200 PB		C150PB C152PB	C150PBX8 C152PBX8	C150PBX10 C152PBX10	C150PBX11 C152PBX11	C150PBX12 C152PBX12	C350PB	C178PB	C180PB
1300 PC		C150PC C152PC	C150PCX8 C152PCX8	C150PCX10 C152PCX10	C150PCX11 C152PCX11	C150PCX12 C152PCX12	C350PC	C178PC	C180PC
1400 PD		C150PD C152PD	C150PDX8 C152PDX8	C150PDX10 C152PDX10	C150PDX11 C152PDX11	C150PDX12 C152PDX12		C178PD	
Stud Torque (in-lbs)	150	150	150	150	150		300	300	
Mounting Force (lbs) required						800			
Package Type	½" stud	½" stud	½" stud	½" stud	½" stud	½" P.P.	¾" stud	¾" stud	
Package Outline Number	TO-94, 83	TO-94, 83	TO-94, 83	TO-94, 83	TO-94, 83	TO-200AB	TO-93	TO-93	