

PHASE CONTROL SCRs



NATIONAL TYPE NO.	C430X555	C430	C431	C441	C601	C430X500	C430X550	C440	
JEDEC NO.									
RMS on state current (A) max.	1000	1000	1000	1100	1200	1200	1250	1400	
VOLTAGE RANGE	500-1200	500-1300	500-1800	1300-1800	800-1700	100-600	100-400	500-1300	
I_{T(AV)} Amps @ 180° conduction @ T_c	700 @ 75°	700 @ 65°	670 @ 65°	800 @ 65°	750 @ 72°	700 @ 76°	700 @ 100°	850 @ 75°	
I_{TRM} Peak one cycle surge current (A)	8000	8000	8000	11000	11000	11000	9000	13000	
I²t For fusing at 8.3 msec (A²sec)	265000	265000	265000	500000	500000	415000	335000	700000	
V_{TM} Max. peak on-state volts @ peak amps., T_J = 25°C	2.4 @ 2200	2.4 @ 3000A	2.65 @ 3000A	2.0 @ 3000A	2.1 @ 3000A	1.8 @ 2000A	1.8 @ 2000A	1.7 @ 3000	
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)	100	200	200	200	200	200	100	200	
I_{GT} Max. gate trigger current (MA) @ 25°C	200	150	150	150	150	150	200	150	
V_{GT} Max. gate trigger voltage (V) @ 25°C	3.5	3.5	3.5	3.0	3.0	3.5	3.5	3.0	
R_{θJC} Max. thermal resistance, junction-to-case (°C/W)	.04	.04	.04	.04	.041	.04	.04	.04	
T_J Max. junction operating temperature (°C)	150	125	125	125	125	125	150	125	
	100	A				C430AX500	C430AX550		
	200	B				C430BX500	C430BX550		
	300	C				C430CX500	C430CX550		
REPETITIVE	400	D				C430DX500	C430DX550		
PEAK	500	E	C430EX555	C430E	C431E	C430EX500		C440E	
FORWARD	600	M	C430MX555	C430M	C431M	C430MX500		C440M	
(V _{DRM})	700	S	C430SX555	C430S	C431S			C440S	
	800	N	C430NX555	C430N	C431N		C601N	C440N	
AND	900	T	C430TX555	C430T	C431T		C601T	C440T	
	1000	P	C430PX555	C430P	C431P		C601P	C440P	
REPETITIVE	1100	PA	C430PAX555	C430PA	C431PA		C601PA	C440PA	
PEAK	1200	PB	C430PBX555	C430PB	C431PB		C601PB	C440PB	
REVERSE	1300	PC		C430PC	C431PC	C441PC	C601PC	C440PC	
(V _{RRM})	1400	PD			C431PD	C441PD	C601PD		
VOLTAGE	1500	PE			C431PE	C441PE	C601PE		
	1600	PM			C431PM	C441PM	C601PM		
	1700	PS			C431PS	C441PS	C601PS		
	1800	PN			C431PN	C441PN			
Mounting Force (lbs) required			2000	2000	2000	4000	2000	2000	4000
Package Type			½" P.P.	½" P.P.	½" P.P.	1" P.P.	½" P.P.	½" P.P.	1" P.P.
Package Outline Number			TO-200AB-2	TO-200AB-2	TO-200AB-2	TO-200AC	TO-200AB-2	TO-200AB-2	TO-200AC