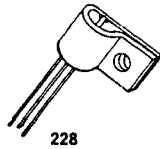




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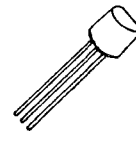


195.1

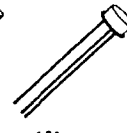


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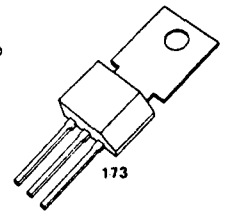
PHASE CONTROL SCR's .5 TO 5 AMPERES



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GE TYPE	C3	C103	C203	C5	C6	C7	—	C106	C107	C108
JEDEC	2N877-81 ⁽¹⁾	—	2N5060-64	2N2322-29	—	2N2344-48	2N1595-99, A	—	—	—
ELECTRICAL SPECIFICATIONS										
VOLTAGE RANGE	30-200	30-200	30-400	25-400	25-400	25-200	50-400	15-600	15-600	15-600
FORWARD CONDUCTION										
$I_{T(RMS)}$	Max. RMS on-state current (A)									
	0.5	0.8	0.8	1.6	1.6	1.6	1.6	4.0	4.0	5.0
$I_{T(AV)}$	Max. average on-state current @ 180° conduction (A) @ T_C									
	0.32 @ 85°C	0.50 @ 25°C	0.50 @ 25°C	1.0 @ 85°C	1.0 @ 85°C	1.0 @ 55°C	1.0 @ 110°C	2.5 @ 30°C	2.5 @ 20°C	3.75 @ 30°C
I_{TSM}	Max. peak one cycle, non-repetitive surge current (A)									
	7	8	8	15	10	15	15	20	15	30
I^2t	Max. I^2t for fusing for > 1.5 msec (A ² sec)									
	—	—	—	0.5	0.5	—	0.5	0.5	0.5	1
V_{TM}	Max. peak on-state voltage @ 25°C, 180° conduction, rated $I_{T(AV)}$ (V)									
	1.6	1.5	1.5	2.2	1.4	2	2	2.2	2.5	1.35
$R_{\theta JC}$	Max. internal thermal resistance, dc junction-to-case (°C/W)									
	80	125	75	10	10	—	—	10	10	10
I_H	Max. holding current @ 25°C (mA)									
	5	5	5	2	5	1	—	3	6	3
t_q	Typical turn-off time (μsec) @ max. T_J									
	15	15	15	40	40	20	40	40	40	40
	Maximum turn-off time (μsec @ 110°C)									
	—	—	—	—	—	—	—	100	100	100
$t_d + t_r$	Typical turn-on time (μsec @ 110°C)									
	1	1.4	1.4	1.4	1.4	1.4	1.2	1	1	1
di/dt	Max. rate-of-rise of turned-on current (A/μsec)									
	—	—	—	50	—	—	—	50	50	50
T_J	Junction operating temperature range (°C)									
	-65 to 125	-65 to 125	-65 to 125	-65 to 125	-40 to 125	-65 to 100	-65 to 150	-40 to 110	-40 to 110	-40 to 110
BLOCKING										
dv/dt	Typical critical rate-of-rise of off-state voltage, exponential to rated V_{DRM} @ max. rated T_J (V/μsec)									
	40	20	20	20	20	20	20	8	8	8
FIRING										
I_{GT}	Max. required gate current to trigger (μA)									
	300 @ -65°C	500 @ -40°C	500 @ 25°C	350 @ -65°C	— @ -40°C	75 @ 25°C	— @ -65°C	— @ -40°C	— @ 25°C	—
V_{GT}	Max. required gate voltage to trigger (V)									
	200 @ -65°C	200 @ -40°C	200 @ 25°C	200 @ -65°C	1000 @ -40°C	20 @ 25°C	10,000 @ -65°C	200 @ -40°C	500 @ 25°C	200 @ 110°C
V_{GT}	Min. required gate voltage to trigger (V)									
	0.8 @ -65°C	0.8 @ -40°C	0.8 @ 25°C	0.8 @ -65°C	0.8 @ -40°C	0.8 @ 25°C	3 @ 110°C	0.8 @ 125°C	0.8 @ 110°C	0.2 @ 125°C
	0.05	0.1	0.1	0.1	0.1	0.1	—	—	—	—
VOLTAGE TYPES										
Repetitive Peak Forward and Reverse Voltages										
15	—	—	—	—	—	—	—	C106Q1	C107Q1	C108Q1
25	—	—	—	2N2322 C5U	C6U	2N2344	—	—	—	—
30	2N877	C103Y	2N5060 C203Y	—	—	—	—	C106Y1	C107Y1	C108Y1
50	—	—	—	2N2323* C5F	C6F	2N2345	2N1595, A	C106F1	C107F1	C108F1
60	2N878	C103YY	2N5061 C203YY	—	—	—	—	—	—	—
100	2N879	C103A	2N5062 C203A	2N2324* C5A	C6A	2N2346	2N1596, A	C106A1	C107A1	C108A1
150	2N890	—	2N5063	2N2325 C5G	C6G	2N2347	—	—	—	—
200	2N881	C103B	2N5064 C203B	2N2326* C5B	C6B	2N2348	2N1597, A	C106B1	C107B1	C108B1
250	—	—	—	2N2327 C5H	—	—	—	—	—	—
300	—	—	C203C	2N2328* C5C	C6C	—	2N1598, A	C106C1	C107C1	C108C1
400	—	—	C203D	2N2329* C5D	C6D	—	2N1599, A	C106D1	C107D1	C108D1
500	—	—	—	—	—	—	—	C106E1	C107E1	C108E1
600	—	—	—	—	—	—	—	C106M1	C107M1	C108M1
PACKAGE OUTLINE NO.	112	195.1, 228	263	101	101	101	101	173	173	173

* JAN & JANTX types available.

1. 2N885-89 available 20 mA max. I_{GT} .

2. 2N2322A-28A available 20 mA max. I_{GT} .