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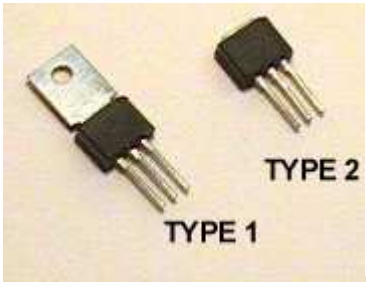
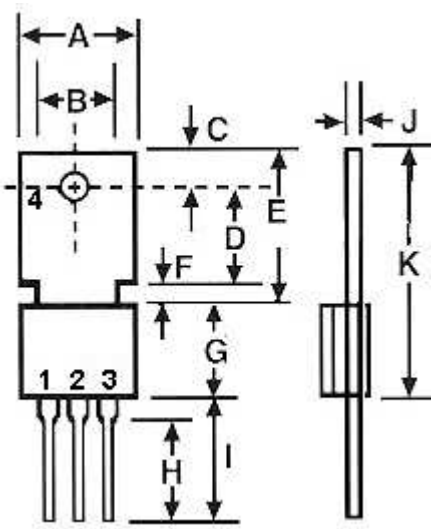
TO-202 SENSITIVE GATE SCR





SYM.	INCHES	
A	0.360	0.400
B	0.240	0.260
C	0.115	0.135
D	0.310	0.320
E	0.480	0.520
F	0.055	0.065
G	0.285	0.315
H	0.333	0.343
I	0.400	0.420
J	0.019	0.026
K	0.760	0.835

1. Cathode
2. Anode
3. GATE
4. Tab Common to Anode

MAXIMUM RATINGS	SYMBOL	DEVICE NUMBERS			UNITS
REPETITIVE PEAK OFF-STATE VOLTAGE AND REPETITIVE PEAK REVERSE VOLTAGE. GATE OPEN, AND TJ = 110° C	50 100 200 400 600	200µA Gate S106F* S106A* S106B* S106D* S106M*	 S206F* S206A* S206B* S206D* S206M*	 S306F* S306A* S306B* S306D* S306M*	VOLT
	50 100 200 400 600	500µA Gate S107F* S107A* S107B* S107D* S107M*	 S207F* S207A* S207B* S207D* S207M*	 S307F* S307A* S307B* S307D* S307M*	
RMS ON-STATE CURRENT AT TC = 80° C AND CONDUCTION, ANGLE OF 360°	IT(RMS)	4.0	6.0	8.0	AMP
PEAK SURGE (NON-REPETITIVE) ON-STATE CURRENT, ONE-CYCLE, AT 50HZ OR 60HZ	ITSM	40	60	80	AMP
PEAK GATE - TRIGGER CURRENT FOR 3µSEC. MAX.	IGTM	1	1	1	AMP
PEAK GATE - POWER DISSIPATION AT IGT ≤ IGTM	PGM	15	15	15	WATT
AVERAGE GATE - POWER DISSIPATION	PG(AV)	0.1	0.1	0.1	WATT
STORAGE TEMPERATURE RANGE	Tstg	-40 to +150			°C
OPERATING TEMPERATURE RANGE, Tj	Toper	-40 to +110			°C
PEAK OFF - STATE CURRENT (1) TC = 110° C VDRM &VRRM = MAX. RATING	IDRM & IRRM	0.1	0.1	0.1	MA MAX.
MAXIMUM ON - STATE VOLTAGE, (PEAK) AT TC=25° C AND IT = RATED AMPS	VTM	2.2	1.6	2.5	VOLT MAX.
DC HOLDING CURRENT, (1)AND TC = 25° C	IHO	3	6	6	MA MAX.
CRITICAL RATE-OF-RISE OF OFF-STATE VOLTAGE, (1) FOR VD = VDRM GATE OPEN, TC=110° C	CRITICAL dv/dt	8	5	5	V/µSEC.
DC GATE-TRIGGER CURRENT FOR ANODE VOLTAGE - 6VDC, RL=100 OHM AND AT TC = 25° C	IGT	200	200	200	µA MAX.
		500	500	500	µA MAX.
DC GATE - TRIGGER VOLTAGE FOR ANODE VOLTAGE=6VDC, RL=100 OHM AND AT TC = 25° C	VGT	0.8	0.8	0.8	VOLT MAX.
GATE CONTROLLED TURN-ON TIME FOR t D+ t R, IGT = 20 mA and TC = 25° C	T gt	1.2	2	2	µsec.
THERMAL RESISTANCE, JUNCTION-TO-CASE	RθJ-C	5	4.4	4.4	°C / WATT TYP

NOTE:(1) R G-K=1K OHM. *INDICATE TYPE 1 OR TYPE 2.