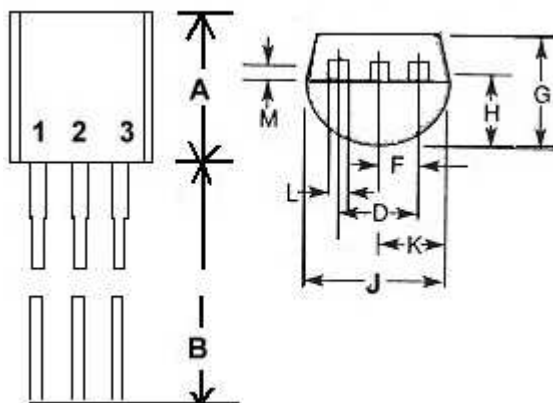


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TO-92 SENSITIVE GATE SCR



1. Cathode
2. GATE
3. Anode

SYM	INCHES	
A	0.170	0.210
B	0.500	0.600
D	0.095	0.105
F	0.045	0.055
G	0.125	0.165
H	0.080	0.105
J	0.175	0.205
K	0.075	0.085
L	0.015	0.018
M	0.015	0.018
K	0.085	0.095

MAXIMUM RATINGS	SYMBOL	DEVICE NUMBERS			UNITS
REPETITIVE PEAK OFF-STATE VOLTAGE	50	S8F	S1F	S2F	VOLT
REPETITIVE PEAK REVERSE VOLTAGE	100	S8A	S1A	S2A	
GATE OPEN, AND TJ = 110° C /VDRM	200	S8B	S1B	S2B	
	400	S8D	S1D	S2D	
	600	S8M	S1M	S2M	
RMS ON-STATE CURRENT AT TC = 50° C AND CONDUCTION, ANGLE OF 180°	IT(RMS)	0.8	1.2	1.5	AMP
PEAK SURGE (NON-REPETITIVE) ON-STATE CURRENT, ONE-CYCLE, AT 50HZ OR 60HZ	ITSM	10	20	20	AMP
PEAK GATE - TRIGGER CURRENT FOR 3μSEC. MAX.	IGTM	0.5	0.5	0.5	AMP
PEAK GATE-POWER DISSIPATION AT IGT ≤ IGTm	PGM	1	10	10	WATT
AVERAGE GATE - POWER DISSIPATION	PG(AV)	0.1	0.2	0.2	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	1.7	1.6	1.6	VOLT MAX.
DC HOLDING CURRENT, (1) GATE OPEN AND TC = 25° C	IHO	5	5	5	MA MAX.
CRITICAL RATE-OF-RISE OF OFF-STATE VOLTAGE, (1) GATE OPEN, TC = 110° C	Critical dv/dt	5	5	10	V/μSEC.
DC GATE - TRIGGER CURRENT FOR ANODE VOLTAGE=6VDC, RL=100 ohm AND AT TC=25°C	IGT	200	200	200	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 TD + TR, IGT = 10 MA AND TC = 25° C	TGT	2.2	2.2	2.2	μSEC.
THERMAL RESISTANCE, JUNCTION-TO-CASE	RθJ-C	75	50	50	°C / WATT TYP
THERMAL RESISTANCE, JUNCTION-TO-AMBIENT	RθJ-A	160	200	175	°C / WATT TYP

(1) RG-K = 1 K ohm