

Hutson Industries, Inc.

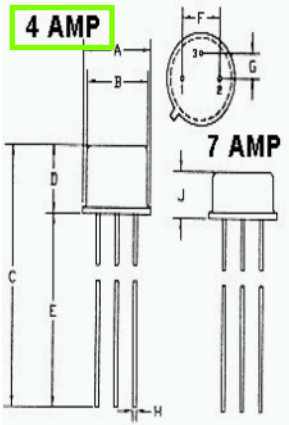
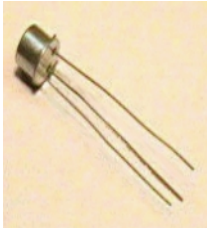
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TO-5 SENSITIVE and
NON SENSITIVE GATE
SCR



SYM.	INCHES	
A	0.335	0.370
B	0.305	0.335
C	1.740	1.790
D	0.260	0.270
E	1.500	0.1.550
F	0.200	0.205
G	0.100	0.102
H	0.016	0.021
J	0.270	0.280

1. Cathode
2. Anode
3. GATE

MAXIMUM RATINGS	SYMBOL	DEVICE NUMBERS			UNITS
		SENSITIVE		NON-SENSITIVE	
REPETITIVE PEAK OFF-STATE VOLTAGE REPETITIVE PEAK REVERSE VOLTAGE GATE OPEN, AND TJ = 110° C /VDRM	50 100 200 400 600	HS04S HS14S HS24S HS44S HS64S	HS04 HS14 HS24 HS44 HS64	HS07 HS17 HS27 HS47 HS67	VOLT
RMS ON-STATE CURRENT AT TC = 80° C AND CONDUCTION, ANGLE OF 180°	T(RMS)	4.0	4.0	7.0	AMP
PEAK SURGE (NON-REPETITIVE) ON-STATE CURRENT, ONE-CYCLE, AT 50HZ OR 60HZ	ITSM	40	40	80	AMP
PEAK GATE - TRIGGER CURRENT FOR 3µSEC. MAX.	IGTM	1	1	1	AMP
PEAK GATE-POWER DISSIPATION AT IGT ≤ IGTM	PGM	20	20	20	WATT
AVERAGE GATE - POWER DISSIPATION	PG(AV)	0.2	0.2	0.5	WATT
STORAGE TEMPERATURE RANGE	TSTG	-40 to +150			C°
OPERATING TEMPERATURE RANGE, TJ	TOPER	-40 to +110			C°
PEAK OFF - STATE CURRENT, TC = 110° C VDRM & VRRM = MAX. RATING	IDRM & IRRM	(1) 0.75	(1) 0.75	1.0	MA MAX.
MAXIMUM ON - STATE VOLTAGE, (PEAK) AT TC = 25° C AND IT = RATED AMPS	VTM	2.2	2.2	2.0	VOLT MAX.
DC HOLDING CURRENT, GATE OPEN AND TC=25°C	IHO	(1) 5	(1) 10	50	MA MAX.
CRITICAL RATE-OF-RISE OF OFF-STATE VOLTAGE, GATE OPEN, TC=110°C	CRITICAL dv/dt	(1) 5	(1) 5	100	V/µSEC.
DC GATE - TRIGGER CURRENT FOR ANODE VOLTAGE=6VDC, RL=100 ohm AND AT TC = 25° C	IGT	200µA	1.0	25	MA MAX.
DC GATE-TRIGGER VOLTAGE FOR ANODE VOLTAGE=6VDC, RL=100 ohm AND AT TC=25°C	VGT	0.8	1.0	1.5	VOLT MAX.
GATE CONTROLLED TURN-ON TIME OR TD + TR, IGT = 10 MA AND TC = 25° C	TGT	1.2	1.2	(2) 2.0	µSEC.
THERMAL RESISTANCE, JUNCTION-TO-CASE	RθJ-C	5	5	2.5	C° / WATT TYP

(1) RG-K = 1 K ohm

(2) t gt measured with IGT=100mA