Hutson Industries, Inc.
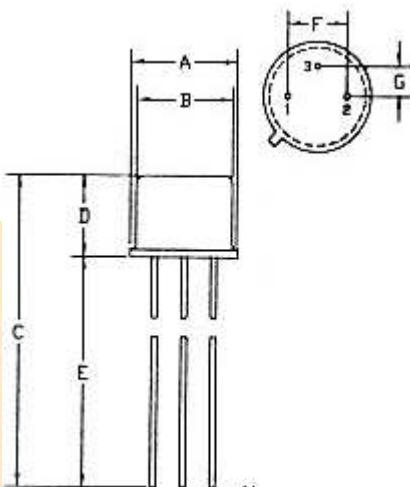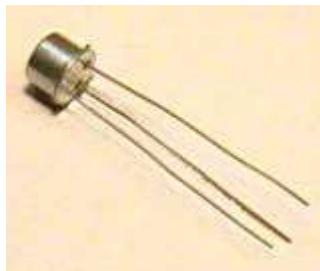
1000 Hutson Circle
Frisco, TX 75034
TEL:(972)335-8600
Fax:(972)377-2197

TO-5 TRIAC

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. MT 1
2. MT 2
(Connected to case)
3. GATE

MAXIMUM RATINGS	SYMBOL	DEVICE NUMBERS				UNITS
REPETITIVE PEAK OFF-STATE VOLTAGE (1) GATE OPEN, AND TJ = 110° C /VDRM	200 400 600	HI23SS HI43SS HI63SS	HI23SD HI43SD HI63SD	HI23SG HI43SG HI63SG	HI23SH HI43SH HI63SH	VOLT
RMS ON-STATE CURRENT AT TC=80º C AND CONDUCTION, ANGLE OF 360º	IT(RMS)	3.0	3.0	3.0	3.0	AMP
PEAK SURGE (NON-REPETITIVE) ON-STATE CURRENT, ONE-CYCLE, AT 50HZ OR 60HZ	ITSM	30	30	30	30	AMP
PEAK GATE - TRIGGER CURRENT FOR 3µSEC. MAX.	IGTM	1	1	1	1	AMP
PEAK GATE-POWER DISSIPATION AT IGT ≤IGTM	PGM	20	20	20	20	WATT
AVERAGE GATE - POWER DISSIPATION	PG(AV)	0.2	0.2	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) GATE OPEN TC=110°C VDRM=MAX. RATING	IDRM	0.75	0.75	0.75	0.75	MA MAX.
MAXIMUM ON - STATE VOLTAGE, (1) AT TC=25°C AND IT=RATED AMPS	VTM	1.85	2.20	2.20	2.20	VOLT MAX.
DC HOLDING CURRENT, (1) GATE OPEN AND TC=25° C	IHO	5	15	15	15	MA MAX.
CRITICAL RATE-OF-RISE OFF-STATE VOLTAGE, (1) FOR VD=VDRM GATE OPEN, TC=110°C	CRITICAL dv/dt	3	4	5	7	V/µSEC.
CRITICAL RATE-OF-RISE OF COMMUTATING VOLTAGE, (1) AT TC=80°C, GATE ENENERGIZED, VD=VDRM IT=IT(RMS)	COMMUTATING dv/dt	1	1	1	1	V/µSEC.
DC GATE -TRIGGER CURRENT FOR VD=12VDC. RL=60 OHM AND AT TC=25°C (T2 + GATE + T2 - GATE-) Q 1 & 3 (T2 + GATE - T2 - GATE +) Q 2 & 4	IGT	3	5	10	25	MA MAX.
DC GATE - TRIGGER VOLTAGE FOR VD=12VDC. RL=60 OHM AND AT TC=25° C	VGT	2.2	2.2	2.2	2.2	VOLT MAX.
GATE CONTROLLED TURN-ON TIME FOR VD=VDRM IGT=80MA TR=0.1 µSEC. IT=6A (PEAK) AND TC=25°C	TGT	2.2	2.2	2.2	2.2	µSEC.
THERMAL RESISTANCE, JUNCTION-TO-CASE	RθJ-C	4	4	4	4	°C / WATT TYP

Note(1)Values apply in either direction.