

Hutson Industries, Inc.

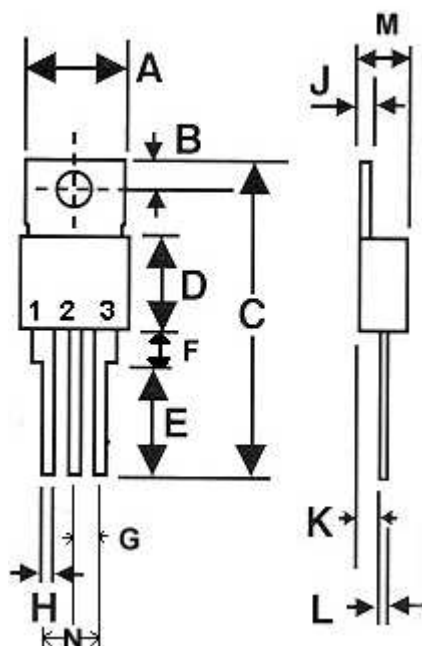
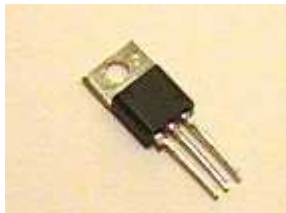
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**TO-220 ISOLATED*
SENSITIVE GATE TRIAC**



- 1. MT 1
- 2. MT 2
- 3. GATE

SYMBOL	INCHES	
A	0.410	0.430
B	0.097	0.103
C	1.160	1.175
D	0.340	0.350
E	0.375	0.475
F	0.085	0.200
G	0.090	0.160
H	0.030	0.035
J	0.045	0.055
K	0.070	0.080
L	0.019	0.025
M	0.175	0.195
N	0.190	0.210

MAXIMUM RATINGS	SYMBOL	DEVICE NUMBERS				UNITS
REPETITIVE PEAK OFF-STATE VOLTAGE (1) GATE OPEN, AND T _J = 110° C /VDRM	200 400 600	IT28SD IT48SD IT68SD	IT28TD IT48TD IT68TD	IT28SG IT48SG IT68SG	IT28TG IT48TG IT68TG	VOLT
RMS ON-STATE CURRENT AT T _C = 80° C AND CONDUCTION, ANGLE OF 360°	IT(RMS)	8.0	8.0	8.0	8.0	AMP
PEAK SURGE (NON-REPETITIVE) ON-STATE CURRENT, ONE-CYCLE, AT 50HZ OR 60HZ	ITSM	80	80	80	80	AMP
PEAK GATE - TRIGGER CURRENT FOR 3μSEC. MAX.	IGTM	2	2	2	2	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, T _J	TOPER	-40 TO +110				°C
PEAK OFF - STATE CURRENT (1) GATE OPEN T _C =110° C VDRM=MAX. RATING	IDRM	0.5	0.5	0.5	0.5	MA MAX.
MAXIMUM ON - STATE VOLTAGE, (1) AT T _C = 25° C AND I _T = RATED AMPS	VTM	1.6	1.6	1.6	1.6	VOLT MAX.
DC HOLDING CURRENT, (1) GATE OPEN AND T _C = 25° C	IHO	25	25	25	25	MA MAX.
CRITICAL RATE-OF-RISE OF OFF-STATE VOLTAGE, (1) FOR V _D = VDRM GATE OPEN, T _C =110° C	CRITICAL dv/dt	30	30	30	30	V/μSEC.
CRITICAL RATE-OF-RISE OF COMMUTATION VOLTAGE, (1) AT T _C = 80° C, GATE UNENERGIZED, V _D =VDRM I _T =I _T (RMS)	COMMUTATING dv/dt	2	2	2	2	V/μSEC.
DC GATE - TRIGGER CURRENT FOR V _D =12VDC. R _L = 60 ohm AND AT T _C =25° C (T ₂ + GATE - T ₂ - GATE-) Q I & III (T ₂ + GATE - T ₂ - GATE +) Q II & IV	IGT	5 ALL QUADS	5 I, II, III	10 ALL QUADS	10 I, II, III	MA MAX.
DC GATE - TRIGGER VOLTAGE FOR V _D =12VDC. R _L =60 ohm AND AT T _C =25° C	VGT	2.2	2.2	2.2	2.2	VOLT MAX.
GATE CONTROLLED TURN-ON TIME FOR V _D =VDRM IGT=80mA TR=0.1 μSEC. IT=10A (PEAK) AND T _C =25° C	TGT	2.2	2.2	2.2	2.2	μSEC.
THERMAL RESISTANCE, JUNCTION-TO-CASE	RθJ-C	2.5	2.5	2.5	2.5	°C/ WATT TYP

NOTES: (1) ALL VALUES APPLY IN EITHER DIRECTION. *ALL HUTSON ISOLATED TO-220 TRIAC DEVICES ARE UL RECOGNIZED. UL NUMBER E95589 (N)