

**Hutson Industries, Inc.**

1000 Hutson Circle

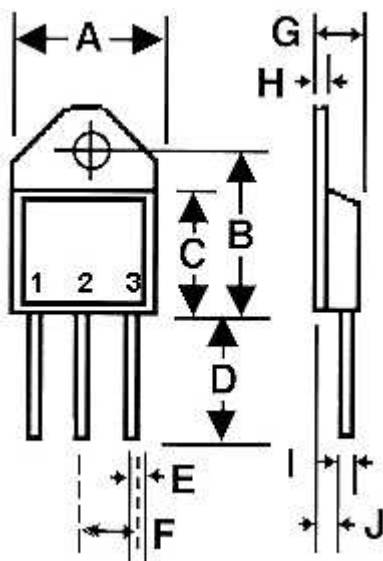
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**TO-218 ISOLATED\***

**TRIAC**



1. MT 1

2. MT 2

3. GATE

SYM	INCHES	
A	0.610	0.628
B	0.625	0.650
C	0.480	0.500
D	0.500	0.610
E	0.040	0.065
F	0.205	0.225
G	0.165	0.200
H	0.053	0.065
I	0.015	0.025
J	0.095	0.126

MAXIMUM RATINGS	SYMBOL	DEVICE NUMBERS			UNITS
Repetitive Peak Off-State Voltage (1) Gate Open, and T <sub>J</sub> = 110° C /VDRM	200 400 600	HIT216 HIT416 HIT616	HIT225 HIT425 HIT625	HIT240 HIT440 HIT640	AMP
RMS On-State Current at T <sub>c</sub> = 80 ° C and Conduction Angle of 360°	I <sub>t</sub> (RMS)	16.0	25.0	40.0	AMP
Peak Surge (Non-Repetitive) On-State Current, One-Cycle, at 50Hz or 60 Hz	I <sub>TSM</sub>	160	250	400	AMP
Peak Gate-Trigger Current for 3μsec. Max.	I <sub>GTM</sub>	4	4	4	AMP
Peak Gate-Power Dissipation at I <sub>GT</sub> ≤ I <sub>GTM</sub>	P <sub>GM</sub>	40	40	40	WATT
Average Gate-Power Dissipation	P <sub>G(AV)</sub>	0.8	0.8	0.8	WATT
Storage Temperature Range	T <sub>stg</sub>	-40 to +150			°C
Operating Temperature Range, T <sub>j</sub>	T <sub>oper</sub>	-40 to +110			°C
Peak Off-State Current, (1) Gate Open TC=110° C VDRM=Max. Rating	I <sub>DRM</sub>	0.5	0.5	0.5	mA MAX.
Maximum On-State Voltage, (1) at T <sub>c</sub> =25°C and I <sub>T</sub> = Rated Amps	V <sub>TM</sub>	1.8	1.8	1.8	VOLT MAX
DC Holding Current, (1) Gate Open and TC=25°C	I <sub>HO</sub>	100	100	100	mA MAX.
Critical Rate-Of-Rise of Off-State Voltage, (1) for V <sub>D</sub> =V <sub>DRM</sub> Gate Open, TC = 110°C	Critical dv/dt	200	200	200	V/μsec.
Critical Rate-Of-Rise Of Commutating Voltage, (1) at TC=80° C, Gate Unenergized, V <sub>D</sub> = V <sub>DRM</sub> , I <sub>T</sub> =I <sub>T</sub> (RMS)	Commutating dv/dt	5	5	5	V/μsec.
DC Gate - Trigger Current for V <sub>D</sub> =12VDC, R <sub>L</sub> =60 OHM and at TC=25°C (T <sub>2</sub> + GATE + T <sub>2</sub> - GATE-) Quads 1 & 3 (T <sub>2</sub> + GATE - T <sub>2</sub> - GATE +) Quads 2 & 4	I <sub>GT</sub>	100 I, II, III 150 IV	100 I, II, III 150 IV	100 I, II, III 150 IV	mA MAX.
DC Gate-Trigger Voltage for V <sub>D</sub> =12VDC, R <sub>L</sub> =30 OHM and at TC=25°C	V <sub>GT</sub>	2.5	2.5	2.5	VOLT MAX
Gate-Controlled Turn-on Time for V <sub>D</sub> =V <sub>DRM</sub> , I <sub>GT</sub> =200mA t <sub>R</sub> =0.1 μsec., I <sub>T</sub> =10A (Peak) and TC=25°C	T <sub>gt</sub>	3	3	3	μsec.
Thermal Resistance, Junction-to-Case	R <sub>θJ-C</sub>	1.4	1.1	0.95	°C/WATT TYP

Notes: (1) All Values Apply in either direction. \*All Hutson Isolated TO-218 devices are UL recognized. UL Number E95589 (N)