



HUTSON INDUSTRIES, INC.

TO-202 TRIAC

MAXIMUM RATINGS	SYMBOL	VDRM	DEVICE NUMBERS			UNITS
REPETITIVE PEAK OFF-STATE VOLTAGE (1) GATE OPEN, AND $T_J = 110^\circ\text{C}$	VDRM	200 400 600	8T24* 8T44* 8T64*	8T26* 8T46* 8T66*	8T28* 8T48* 8T68*	VOLT
RMS ON-STATE CURRENT AT $T_C = 80^\circ\text{C}$ AND CONDUCTION, ANGLE OF 360°	IT(RMS)		4.0	6.0	8.0	AMP
PEAK SURGE (NON-REPETITIVE) ON-STATE CURRENT, ONE-CYCLE, AT 50HZ OR 60HZ	ITSM		40	60	80	AMP
PEAK GATE - TRIGGER CURRENT FOR 3 μ SEC. MAX.	IGTM		1.2	1.6	1.6	AMP
PEAK GATE-POWER DISSIPATION AT $IGT \leq IGTM$	PGM		15	18	18	WATT
AVERAGE GATE - POWER DISSIPATION	PG(AV)		0.3	0.4	0.4	WATT
STORAGE TEMPERATURE RANGE	Tstg		-40 to +150			$^\circ\text{C}$
OPERATING TEMPERATURE RANGE, T_J	Toper		-40 to +110			$^\circ\text{C}$
ELECTRICAL CHARACTERISTICS AT SPECIFIED CASE TEMPERATURE						
PEAK OFF - STATE CURRENT (1) GATE OPEN $T_C = 110^\circ\text{C}$ VDRM = MAX. RATING	IDRM		0.5	0.5	0.5	MA MAX.
MAXIMUM ON - STATE VOLTAGE, (1) AT $T_C = 25^\circ\text{C}$ AND IT = RATED AMPS	VTM		1.6	1.6	1.6	VOLT MAX.
DC HOLDING CURRENT, (1) GATE OPEN AND $T_C = 25^\circ\text{C}$	IHO		30	50	50	MA MAX.
CRITICAL RATE-OF-RISE OF OFF-STATE VOLTAGE, (1) FOR $V_D = V_{DRM}$ GATE OPEN, $T_C = 110^\circ\text{C}$	CRITICAL dv/dt		150	150	150	V/ μ SEC.
CRITICAL RATE-OF-RISE OF COMMUNICATION VOLTAGE, (1) AT $T_C = 80^\circ\text{C}$, GATE UNENERGIZED, $V_D = V_{DRM}$, IT = IT (RMS)	COMMUTATING dv/dt		4	4	4	V/ μ SEC.
DC GATE - TRIGGER CURRENT FOR $V_D = 12\text{VDC}$. RL = 60 OHM AND AT $T_C = 25^\circ\text{C}$ (T2 + GATE + T2 - GATE-) Q 1 & 3 (T2 + GATE - T2 - GATE +) Q 2 & 4	IGT		SEE GATE SPECS.	SEE GATE SPECS.	SEE GATE SPECS.	MA MAX.
DC GATE - TRIGGER VOLTAGE FOR $V_D = 12\text{VDC}$. RL = 60 OHM AND AT $T_C = 25^\circ\text{C}$	VGT		2.5	2.5	2.5	VOLT MAX.
GATE CONTROLLED TURN-ON TIME FOR $V_D = V_{DRM}$ IGT = 80MA TR = 0.1 μ SEC. IT = 6A (PEAK) AND $T_C = 25^\circ\text{C}$	Tgt		3	3.	3	μ SEC.
THERMAL RESISTANCE, JUNCTION-TO-CASE	R θ -C		4.0	4.2	3.8	$^\circ\text{C}$ / WATT TYP

NOTES:

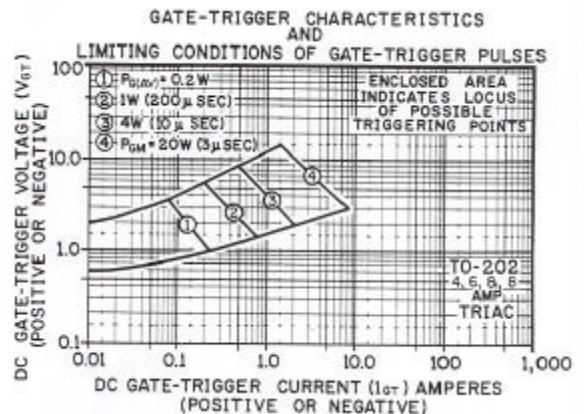
(1) ALL VALUES APPLY IN BOTH DIRECTIONS

GATE SPECS

SUFFIX	I	II	III	IV
A	50	N/S	50	N/S
HA	25	N/S	25	N/S
SH	25	25	25	25
TH	25	25	25	N/S

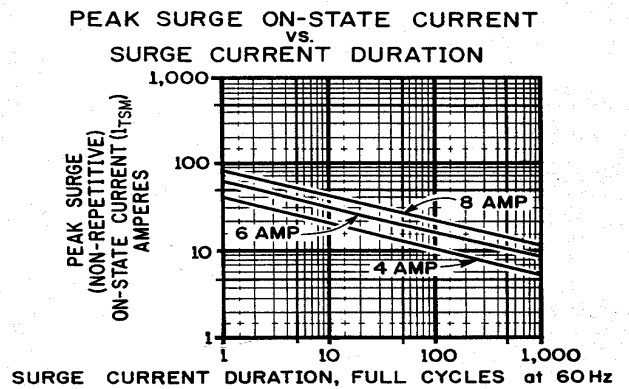
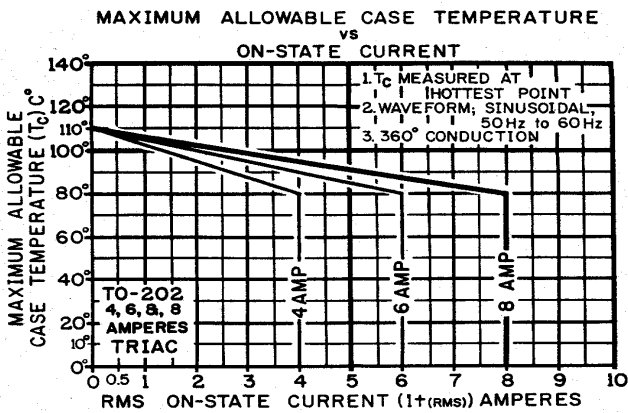
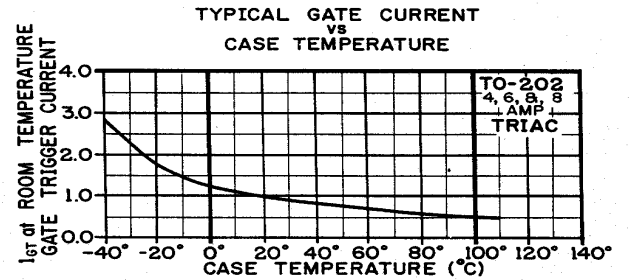
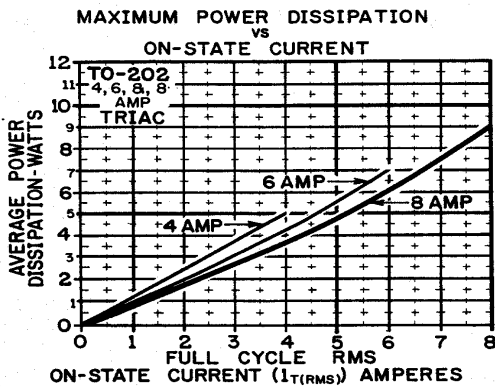
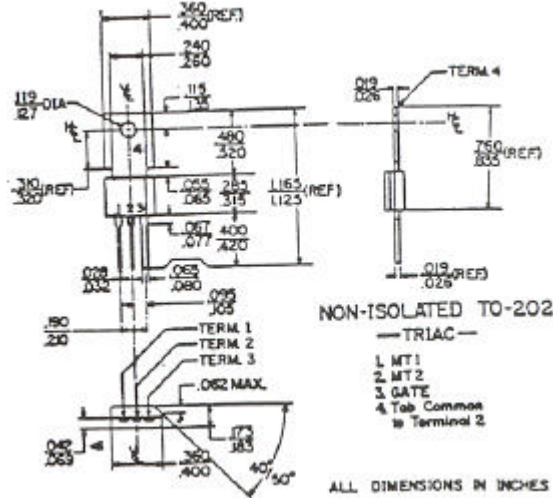
*Add required suffix letter to part number.

--Other gate specs available consult factory---



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CURRENT WAVE FORM:
SINUSOIDAL, 60Hz
RESISTIVE LOAD

I_{T(RMS)} = RATED AMPS at 80 T_C
GATE CONTROL MAY BE LOST DURING AND AFTER SURGE.
GATE CONTROL WILL BE REGAINED AFTER T_J RETURNS TO STEADY STATE VALUE.