

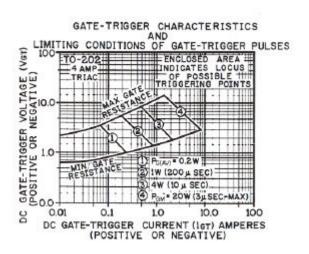
HUTSON INDUSTRIES, INC.

TO-202 SENSITIVE GATE TRIAC

MAXIMUM RATINGS	SYMBOL	VDRM		DEVICE N	IUMBERS		UNITS
REPETITIVE PEAK OFF-STATE VOLTAGE (1) GATE OPEN, AND TJ = 110° C	VDRM	200 400 600	T106B*SS T106D*SS T106M*SS	T106B*SD T106D*SD T106M*SD	T106B*SG T106D*SG T106M*SG	T106B*SH T106D*SH T106M*SH	VOLT
RMS ON-STATE CURRENT AT TC = 80° C AND CONDUCTION, ANGLE OF 360°	IT(RMS)		4.0	4.0	4.0	4.0	AMP
PEAK SURGE (NON-REPETITIVE) ON-STATE CURRENT, ONE-CYCLE, AT 50HZ OR 60HZ	ITSM		40	40	40	40	AMP
PEAK GATE - TRIGGER CURRENT FOR 3µSEC. MAX.	IGTM		1.2	1.2	1.2	1.2	AMP
PEAK GATE-POWER DISSIPATION AT IGT ≤ IGTM	PGM		15	15	15	15	WATT
AVERAGE GATE - POWER DISSIPATION	PG(AV)		0.3	0.3	0.3	0.3	WATT
STORAGE TEMPERATURE RANGE	Tstg		-40 to +150				°C
OPERATING TEMPERATURE RANGE, Tj	Toper		-40 to +110				°C
ELECTRICAL CHARACTERISTICS AT SPECIFIED CASE TEMPERATURES							
PEAK OFF - STATE CURRENT (1) GATE OPEN TC = 110° C VDRM = MAX. RATING	IDRM		0.5	0.5	0.5	0.5	MA MAX.
MAXIMUM ON - STATE VOLTAGE, (1) AT TC = 25° C AND IT = RATED AMPS	VTM		1.6	1.6	1.6	1.6	VOLT MAX.
DC HOLDING CURRENT, (1) GATE OPEN AND TC = 25° C	IHO		5	10	15	25	MA MAX.
CRITICAL RATE-OR-RISE OF OFF-STATE VOLTAGE, (1) FOR VD = VDRM GATE OPEN, TC = 110° C	CRITICAL dv/dt		10	10	15	25	V/μSEC.
CRITICAL RATE-OF-RISE OF COMMUNICATION VOLTAGE, (1) AT TC = 80° C, GATE UNENERGIZED, 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		2.0	2.0	2.0	2.0	VOLT MAX.
GATE CONTROLLED TURN-ON TIME FOR VD = VDRM IGT = 80MA TR = 0.1 µSEC., IT = 6A (PEAK) AND TC = 25° C	Tgt		3	3	3	3	μSEC.
THERMAL RESISTANCE, JUNCTION-TO-CASE	R&J-C		4	4	4	4	°C / WATT TYP

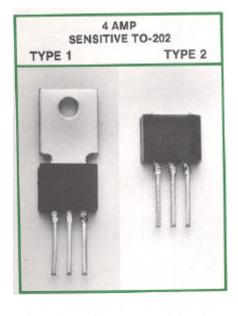
*NOTES:

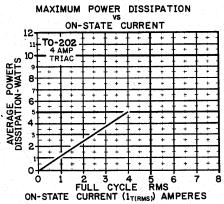
(1) All values apply in either direction
*Part Number requires a "1" for Type 1 or a "2" for Type 2

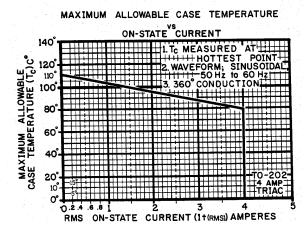


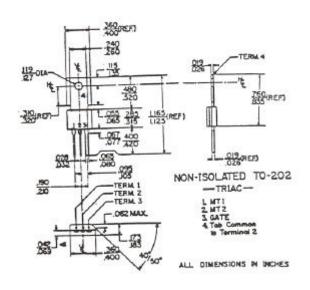


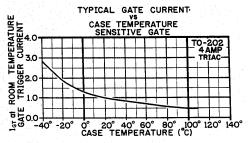
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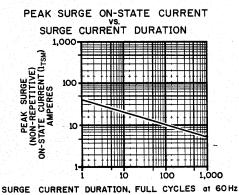












CURRENT WAVE FORM: SINUSOIDIAL, 60Hz

RESISTIVE LOAD

I t(RMS) = 4 AMPS at 80 Tc

GATE CONTROL MAY BE LOST DURING AND AFTER SURGE.
GATE CONTROL WILL BE REGAINED AFTER TJ RETURNS TO
STEADY STATE VALUE.