

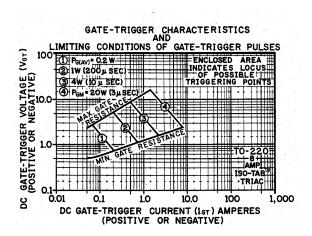
TO-220 ELECTRICALLY ISOLATED (ISOTAB*) SENSITIVE GATE TRIAC

MAXIMUM RATINGS	SYMBOL	VDRM	DE	/ICE N	IUMBE	ED C	UNITS
WAXIIWOW RATINGS	STWIDGE						UNITS
REPETITIVE PEAK OFF-STATE VOLTAGE (1)	VDRM	200 400			28TD IT28SG IT28 48TD IT48SG IT48		VOLT
GATE OPEN, AND TJ = 110° C		400 600				3 IT68TG	
RMS ON-STATE CURRENT AT TC = 80° C AND		000					
CONDUCTION, ANGLE OF 360°	IT(RMS)		8.0	8.0	8.0	8.0	AMP
PEAK SURGE (NON-REPETITIVE) ON-STATE CURRENT,	ITSM		80	80	00	00	AMP
ONE-CYCLE, AT 50HZ OR 60HZ	1151/1		80	80	80	80	AIVIP
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	ΓΟ +1	150	°C
OPERATING TEMPERATURE RANGE, TJ	TOPER			-40 7	ΓO +1	110	°C
ELECTRICAL CHARACTERISTICS							
At Specified Case Temperatures							
PEAK OFF - STATE CURRENT (1) GATE OPEN	IDRM		0.5	0.5	0.5	0.5	MA
TC = 110° C VDRM = MAX. RATING	IDINI		0.5	0.5	0.0	0.5	MAX.
MAXIMUM ON - STATE VOLTAGE,	VTM		1.6	1.6	1.6	1.6	VOLT
(1) AT TC = 25° C AND IT = RATED AMPS							MAX.
DC HOLDING CURRENT, (1) GATE OPEN AND TC = 25° C	IHO		25	25	25	25	MA
CRITICAL RATE-OF-RISE OF OFF-STATE VOLTAGE.	CRITICAL						MAX.
(1) FOR VD = VDRM GATE OPEN, TC = 110° C	dv/dt		30	30	30	30	V/μSEC.
CRITICAL RATE-OF-RISE OF COMMUTATION VOLTAGE.	uv/ut						
(1) AT TC = 80° C, GATE UNENERGIZED, VD = VDRM	COMMUTATING		2	2	2	2	V/µSEC.
IT = IT (RMS)	dv/dt	ì		_	_	_	1,4020.
DC GATE - TRIGGER CURRENT FOR VD = 12VDC.			5	_	10		
RL = 60Ω AND AT TC = 25° C	IGT		ALL QUAD	5 I, II, III	ALL	10	MA MAX.
(T2 + GATE + T2 - GATE-) QUADS I & III					QUAD	I, II, III	
(T2 + GATE - T2 - GATE +) QUADS II & IV			S		S		
DC GATE - TRIGGER VOLTAGE FOR VD = 12VDC.	VGT		0.0	2.2	2.2	2.2	VOLT
RL = 60Ω AND AT TC = 25° C	VGT		2.2	2.2	2.2	2.2	MAX.
GATE CONTROLLED TURN-ON TIME FOR VD = VDRM							
IGT = 80MA TR = $0.1 \mu SEC$. IT = $10A (PEAK) AND TC = 25^{\circ}$	TGT		2.2	2.2	2.2	2.2	μSEC.
С							
THERMAL RESISTANCE, JUNCTION-TO-CASE	R ⊕ J-C		2.5	2.5	2.5	2.5	°C / WATT
1100 0			2.0	2.0	2.0	2.0	TYP

*NOTES:

(1) ALL VALUES APPLY IN EITHER DIRECTION
*Trademark of Hutson Industries, Inc.

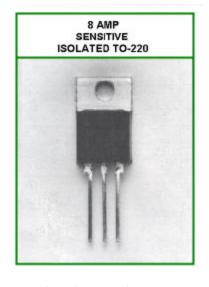
(2) ALL HUTSON ISOLATED TO-220 TRIAC DEVICES ARE UL RECOGNIZED. UL NUMBER E95589 (N)

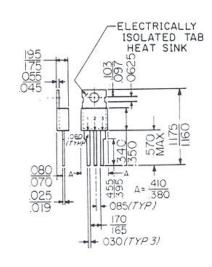




HUTSON INDUSTRIES, INC.

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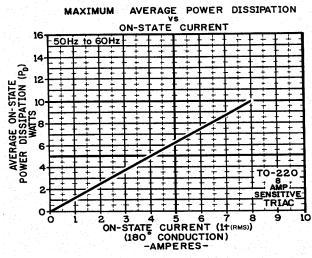


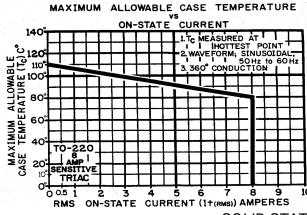
TO-220

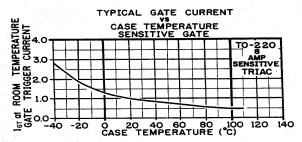
ELECTRICALLY ISLATED TAB PACKAGE

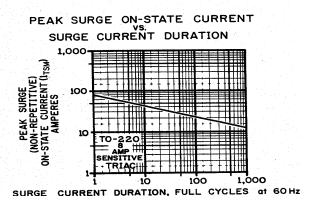
ALL DIMENSIONS IN INCHES INTERNAL CONNECTIONS
--ISOLATED TRIAC--

- 1. Main Terminal 1
- 2. Main Terminal 2
- 3. Gate









CURRENT WAVEFORM:
SINUSOIDIAL, 60Hz
RESISTIVE LOAD
I t(RMS) = 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.