



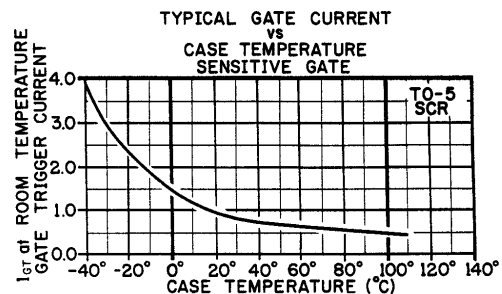
HUTSON INDUSTRIES, INC.

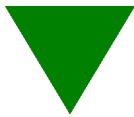
TO-5 SENSITIVE AND NONSENSITIVE GATE SCR

MAXIMUM RATINGS	SYMBOL	VDRM	DEVICE NUMBERS			UNITS
			SENSITIVE	NON-SENSITIVE		
REPETITIVE PEAK OFF-STATE VOLTAGE REPETITIVE PEAK REVERSE VOLTAGE GATE OPEN, AND T _J = 110° C	VDRM & VRRM	50 100 200 400 600	HS04S HS14S HS24S HS44S HS64S	HS04 HS14 HS24 HS44 HS64	HS07 HS17 HS27 HS47 HS67	VOLT
RMS ON-STATE CURRENT AT TC = 80° C AND CONDUCTION, ANGLE OF 180°	IT(RMS)		4.0	4.0	7.0	AMP
PEAK SURGE (NON-REPETITIVE) ON-STATE CURRENT, ONE-CYCLE, AT 50HZ OR 60HZ	ITSM		40	40	80	AMP
PEAK GATE - TRIGGER CURRENT FOR 3μSEC. MAX.	IGTM		1	1	1	AMP
PEAK GATE-POWER DISSIPATION AT IGT IGT _M	PGM		20	20	20	WATT
AVERAGE GATE - POWER DISSIPATION	PG(AV)		0.2	0.2	0.5	WATT
STORAGE TEMPERATURE RANGE	TSTG		-40 to +150			C°
OPERATING TEMPERATURE RANGE, T _J	TOPER		-40 to +110			C°
ELECTRICAL CHARACTERISTICS AT SPECIFIED CASE TEMPERATURE						
PEAK OFF - STATE CURRENT, TC = 110° C VDRM & VRRM = MAX. RATING	IDRM & IRRM		(1) 0.75	(1) 0.75	1.0	MA MAX.
MAXIMUM ON - STATE VOLTAGE, (PEAK) AT TC = 25° C AND IT = RATED AMPS	V _{TM}		2.2	2.2	2.0	VOLT MAX.
DC HOLDING CURRENT, GATE OPEN AND TC = 25° C	I _{HO}		(1) 5	(1) 10	50	MA MAX.
CRITICAL RATE-OF-RISE OF OFF-STATE VOLTAGE, GATE OPEN, TC = 110° C	CRITICAL dv/dt		(1) 5	(1) 5	100	V/μSEC.
DC GATE - TRIGGER CURRENT FOR ANODE VOLTAGE = 6VDC, R _L = 100Ω AND AT TC = 25° C	IGT		200μA	1.0	25	MA MAX.
DC GATE-TRIGGER VOLTAGE FOR ANODE VOLTAGE = 6VDC, R _L = 100Ω AND AT TC = 25° C	V _{GT}		0.8	1.0	1.5	VOLT MAX.
GATE CONTROLLED TURN-ON TIME FOR T _D + T _R , IGT = 10 MA AND TC = 25° C	T _{GT}		1.2	1.2	(2) 2.0	μSEC.
THERMAL RESISTANCE, JUNCTION-TO-CASE	R _{θJ-C}		5	5	2.5	°C / WATT TYP

(1) R G-K = 1 K Ω

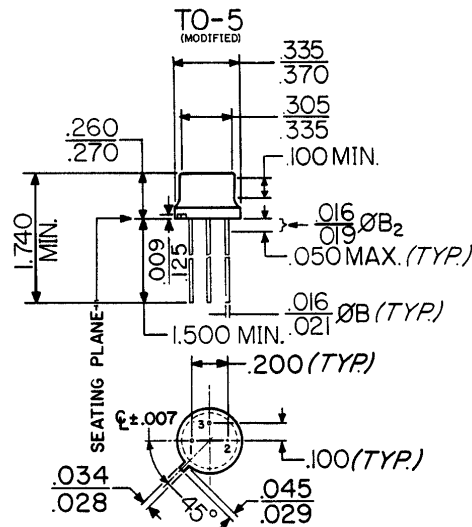
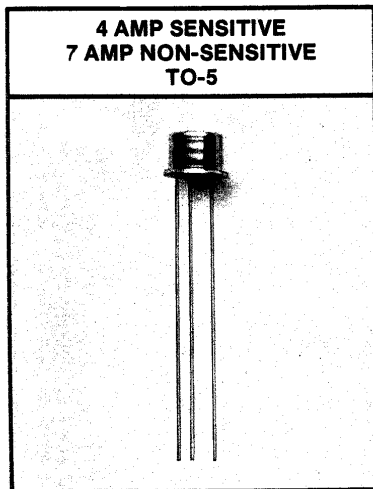
(2) t_{gt} measured with IGT = 100 mA



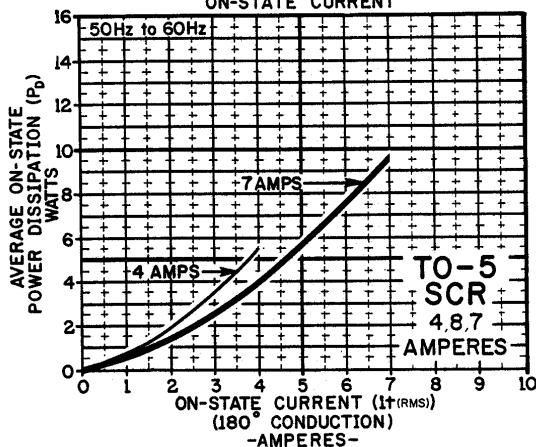


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TO-5 SENSITIVE AND NONSENSITIVE GATE SCR



MAXIMUM CONDUCTION POWER DISSIPATION
vs
ON-STATE CURRENT

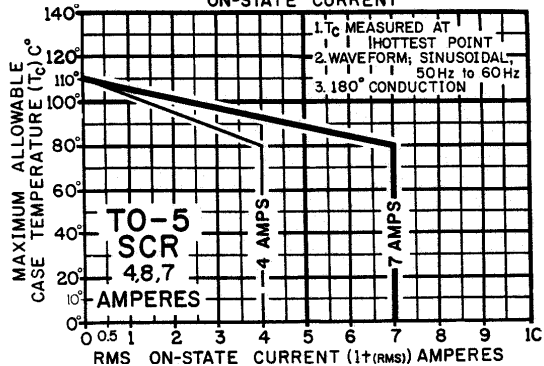


ALL DIMENSIONS IN INCHES
INTERNAL CONNECTIONS

- SCR---
1. CATHODE
 2. ANODE
(Connected To Case)
 3. GATE

NOTE: Main Terminal 2 and Case are
Electronically Common

MAXIMUM ALLOWABLE CASE TEMPERATURE
vs
ON-STATE CURRENT



PEAK SURGE ON-STATE CURRENT
vs
SURGE CURRENT DURATION

