

## HUTSON INDUSTRIES, INC.

## **TO-202 SENSITIVE GATE SCR**

MAXIMUM RATINGS	SYMBOL	VDRM	DEVICE NUMBERS			UNITS
REPETITIVE PEAK OFF-STATE VOLTAGE (1) GATE OPEN, AND TJ = 110° C	VDRM & VRRM		200µA Gate			
		50 100 200 400 600	S106F* S106A* S106B* S106D* S106M*	S206F* S206A* S206B* S206D* S206M*	S206A* S306A* S206B* S306B* S206D* S306D*	VOLT
			500µA Gate			
		50 100 200 400 600	S107F* S107A* S107B* S107D* S107M*	S207F* S207A* S207B* S207D* S207M*	S307F* S307A* S307B* S307D* S307M*	
RMS ON-STATE CURRENT AT TC = 80° 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 3µSEC. MAX.	IGTM		1	1	1	AMP
PEAK GATE - POWER DISSIPATION AT IGT ≤ IGTM	PGM		15	15	15	WATT
AVERAGE GATE - POWER DISSIPATION	PG(AV)		0.1	0.1	0.1	WATT
STORAGE TEMPERATURE RANGE	Tstg		-40 to +150			°C
OPERATING TEMPERATURE RANGE, Tj	Toper		-40 to +110			°C
ELECTRICAL CHARACTERISTICS AT SPECIFIED CASE TEMPERATURE						
PEAK OFF - STATE CURRENT (1) TC = 110° C VDRM &VRRM = MAX. RATING	IDRM & IRRM		0.1	0.1	0.1	MA MAX.
MAXIMUM ON - STATE VOLTAGE, (PEAK) AT TC = 25° C AND IT = RATED AMPS	VTM		2.2	1.6	2.5	VOLT MAX.
DC HOLDING CURRENT, (1)AND TC = 25° C	IHO		3	6	6	MA MAX.
CRITICAL RATE-OF-RISE OF OFF-STATE VOLTAGE, (1) FOR VD = VDRM GATE OPEN, TC = 110° C	CRITICAL dv/dt		8	5	5	V/µSEC.
DC GATE-TRIGGER CURRENT FOR ANODE VOLTAGE - 6VDC, RL = 100 $\Omega$ AND	IGT		200	200	200	μΑ MAX.
$AT TC = 25^{\circ} C$			500	500	500	μΑ ΜΑΧ.
DC GATE - TRIGGER VOLTAGE FOR ANODE VOLTAGE = 6VDC, RL = 100 $\Omega$ AND AT TC = 25° C	VGT		0.8	0.8	0.8	VOLT MAX.
GATE CONTROLLED TURN-ON TIME FOR t D+ t R, IGT = 20 mA and TC = 25° C	T gt		1.2	2	2	µsec.
THERMAL RESISTANCE, JUNCTION-TO-CASE	R <del>ø</del> J-C		5	4.4	4.4	°C / WATT TYP

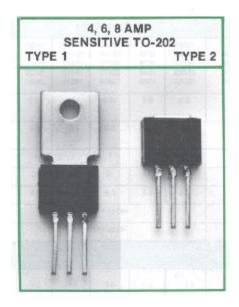
\*Note:

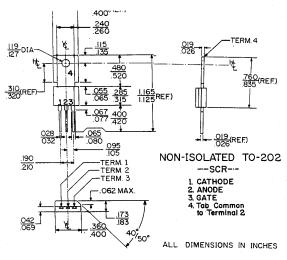
Device number suffix 1 = with TAB (Type 1) Device number suffix 2 = no TAB (Type 2) (1) R G - K = 1 K  $\Omega$ 

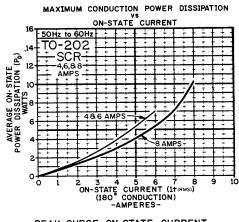


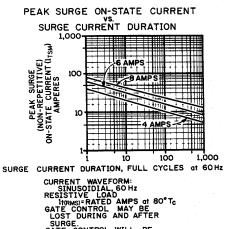
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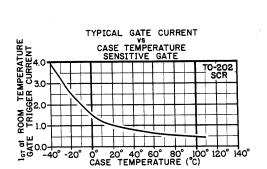
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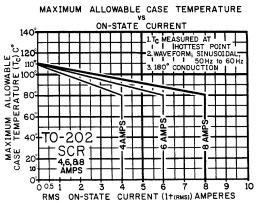












SOLID STATE CONTROL DEVICES