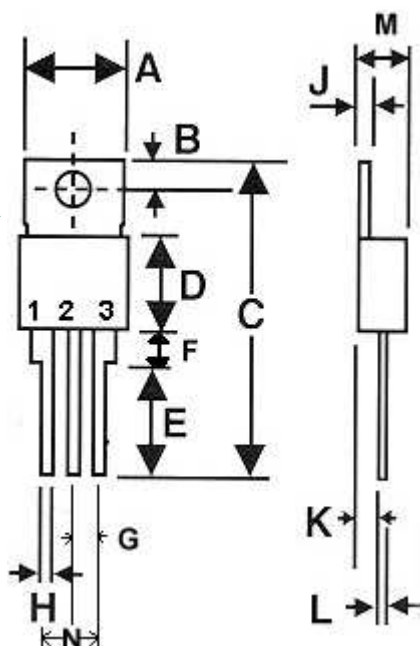
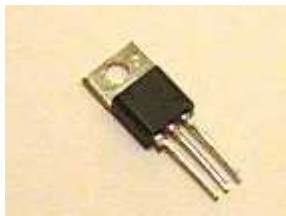


Hutson Industries, Inc.
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TO-220 ISOLATED* SCR



1. Cathode
2. Anode
3. GATE

SYM	INCHES	
A	0.410	0.430
B	0.097	0.103
C	1.160	1.175
D	0.340	0.350
E	0.375	0.475
F	0.085	0.200
G	0.090	0.160
H	0.030	0.035
J	0.045	0.055
K	0.070	0.080
L	0.019	0.025
M	0.175	0.195
N	0.190	0.210

MAXIMUM RATINGS	SYMBOL	DEVICE NUMBERS						UNITS
REPETITIVE PEAK OFF-STATE VOLTAGE	50	IS08S	IS08	IS010	IS012	IS020	IS025	VOLT
REPETITIVE PEAK REVERSE VOLTAGE	100	IS18S	IS18	IS110	IS112	IS120	IS125	
GATE OPEN, AND T _J = 110° C /VDRM	200	IS28S	IS28	IS210	IS212	IS220	IS225	
	400	IS48S	IS48	IS410	IS412	IS420	IS425	
	600	IS68S	IS68	IS610	IS612	IS620	IS625	
RMS ON-STATE CURRENT AT TC = 80° C AND CONDUCTION ANGLE OF 180°	IT(RMS)	8.0	8.0	10.0	12.0	20.0	25.0	AMP
PEAK SURGE (NON-REPETITIVE) ON-STATE CURRENT, ONE-CYCLE, AT 50HZ OR 60HZ	ITSM	80	80	100	120	200	250	AMP
PEAK GATE - TRIGGER CURRENT FOR 3μSEC. MAX.	IGTM	1	1	1	1	1	1	AMP
PEAK GATE-POWER DISSIPATION AT IGT ≤ IGTM	PGM	16	16	16	16	16	16	WATT
AVERAGE GATE - POWER DISSIPATION	PG(AV)	0.5	0.5	0.5	0.5	0.5	0.5	WATT
STORAGE TEMPERATURE RANGE	TSTG	-40 TO +150						°C
OPERATING TEMPERATURE RANGE, T _J	TOPER	-40 TO +110						°C
PEAK OFF - STATE CURRENT GATE OPEN TC = 110° C VDRM & VRRM=MAX. RATING	IDRM & IRRM	(1) 0.1	0.5	0.5	0.5	0.5	0.5	MA MAX.
MAXIMUM ON - STATE VOLTAGE, (PEAK) AT TC = 25° C AND IT = RATED AMPS	V _{TM}	2.0	2.0	1.8	1.65	1.5	1.8	VOLT MAX.
DC HOLDING CURRENT, GATE OPEN AND TC = 25° C	I _{HO}	(1) 3	30	30	30	30	50	MA MAX.
CRITICAL RATE-OF-RISE OF OFF-STATE VOLTAGE, GATE OPEN, TC = 110° C	CRITICAL dv/dt	(1) 8	200	200	200	200	200	V/μSEC.
DC GATE - TRIGGER CURRENT FOR ANODE VOLTAGE = 12VDC, RL = 60 ohm AND AT TC = 25° C	IGT	500μA	25	25	25	25	35	MA MAX.
DC GATE-TRIGGER VOLTAGE FOR ANODE VOLTAGE = 12VDC, RL = 60 ohm AND AT TC = 25° C	VGT	0.8	1.5	1.5	1.5	1.5	1.5	VOLT MAX.
GATE CONTROLLED TURN-ON TIME FOR TD + TR, IGT = 150 MA AND TC=25° C	TGT	2.5	2.5	2.5	2.5	2.5	2.5	μSEC.
THERMAL RESISTANCE, JUNCTION-TO-CASE	RθJ-C	3	2.5	2.5	2.5	2.2	2.4	°C / WATT TYP

NOTE: (1) R G-K=1K ohm. *ALL HUTSON ISOLATED TO-220 SCR DEVICES ARE UL RECOGNIZED. UL NUMBER E95589 (N)