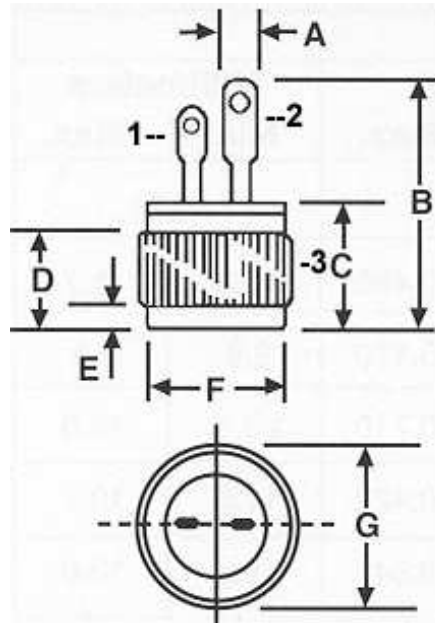


Hutson Industries, Inc.
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20 and 25 AMP 1/2"
PRESS FIT SCR



1. GATE
2. Cathode
3. Anode (case)

SYM	INCHES	
A	0.130	0.090
B	0.750	
C	0.380	0.355
D	0.305	0.265
E	0.100	0.075
F	0.475	0.467
G	0.505	0.501

MAXIMUM RATINGS	SYMBOL	DEVICE NUMBERS		UNITS
REPETITIVE PEAK OFF-STATE VOLTAGE AND REPETITIVE PEAK REVERSE VOLTAGE GATE OPEN, AND $T_J = 110^\circ\text{C}$ /VDRM & VRRM	50 100 200 400 600	PS020 PS120 PS220 PS420 PS620	PS025 PS125 PS225 PS425 PS625	VOLT
RMS ON-STATE CURRENT AT $T_C = 80^\circ\text{C}$ AND CONDUCTION ANGLE OF 360°	IT(RMS)	20	25	AMP
PEAK SURGE (NON-REPETITIVE) ON-STATE CURRENT, ONE-CYCLE, AT 50HZ OR 60HZ	ITSM	200	250	AMP
PEAK GATE - TRIGGER CURRENT FOR $3\mu\text{SEC. MAX.}$	IGTM	2	2	AMP
PEAK GATE - POWER DISSIPATION AT $IGT \leq IGTM$	PGM	20	20	WATT
AVERAGE GATE - POWER DISSIPATION	PG(AV)	0.5	0.5	WATT
STORAGE TEMPERATURE RANGE	TSTG	-40 to +150		$^\circ\text{C}$
OPERATING TEMPERATURE RANGE, T_J	TOPER	-40 to +110		$^\circ\text{C}$
PEAK OFF - STATE CURRENT GATE OPEN, $T_C = 110^\circ\text{C}$ VDRM & VRRM = MAX. RATING	IDRM & IRRM	1.0	1.0	MA MAX.
MAXIMUM ON - STATE VOLTAGE, (PEAK) AT $T_C = 25^\circ\text{C}$ AND $IT = \text{RATED AMPS}$	VTM	1.9	1.5	VOLT MAX.
DC HOLDING CURRENT, GATE OPEN AND $T_C = 25^\circ\text{C}$	IHO	50	50	MA MAX.
CRITICAL RATE-OF-RISE OF OFF-STATE VOLTAGE, GATE OPEN, $T_C = 110^\circ\text{C}$	CRITICAL dv/dt	200	200	V/ $\mu\text{SEC.}$
DC GATE-TRIGGER CURRENT FOR ANODE VOLTAGE = 12VDC, $R_L = 60\text{ W}$ AND AT $T_C = 25^\circ\text{C}$	IGT	25	25	MA MAX.
DC GATE - TRIGGER VOLTAGE FOR ANODE VOLTAGE = 12VDC, $R_L = 60\text{ W}$ AND AT $T_C = 25^\circ\text{C}$	VGT	2.0	2.0	VOLT MAX.
GATE-CONTROLLED TURN-ON TIME FOR $T_D + T_R$, $IGT = 150\text{ MA}$ AND $T_C = 25^\circ\text{C}$	T_{gt}	2.5	2.5	$\mu\text{SEC.}$
THERMAL RESISTANCE, JUNCTION-TO-CASE	$R_{\theta J-C}$	1.3	1.3	$^\circ\text{C/WATT TYP}$