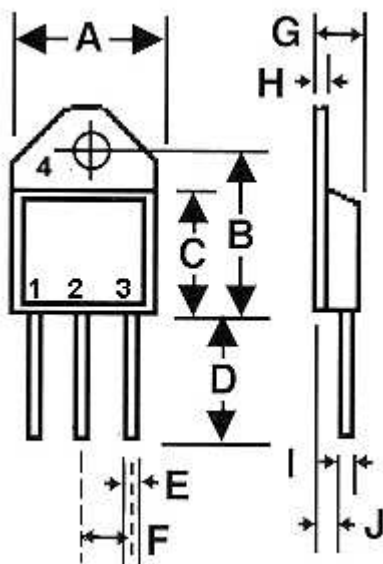


Hutson Industries, Inc.

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TO-218 NON-ISOLATED SCR



1. CATHODE
2. ANODE
3. GATE
4. Common with Anode

SYM	INCHES	
A	0.610	0.628
B	0.625	0.650
C	0.480	0.500
D	0.500	0.610
E	0.040	0.065
F	0.205	0.225
G	0.165	0.200
H	0.053	0.065
I	0.015	0.025
J	0.095	0.126

MAXIMUM RATINGS	SYMBOL	DEVICE NUMBERS				UNITS
Repetitive Peak Off-State Voltage. Repetitive Peak Reverse Voltage. Gate open, and Tj=110°C /VDRM	50 100 200 400 600	HNS025 HNS125 HNS225 HNS425 HNS625	HNS040 HNS140 HNS240 HNS440 HNS640	HNS055 HNS155 HNS255 HNS455 HNS655	HNS070 HNS170 HNS270 HNS470 HNS670	VOLT
RMS On-State Current at TC=80 °C and Conduction Angle of 180°	It(RMS)	25	40	55	70	AMP
Peak Surge (Non-Repetitive) On-State Current, One-Cycle, at 50Hz or 60 Hz	ITSM	250	400	550	700	AMP
Peak Gate-Trigger Current for 3µsec. Max.	IGTM	5	5	5	5	AMP
Peak Gate-Power Dissipation at IGT ≤ IGTM	PGM	20	20	20	20	WATT
Average Gate-Power Dissipation	PG(AV)	0.5	0.5	0.5	0.5	WATT
Storage Temperature Range	Tstg	-40 to +150				°C
Operating Temperature Range, Tj	Toper	-40 to +110				°C
Peak Off-State Current, Gate Open TC=110° C VDRM & VRRM=Max. Rating	IDRM	0.5	0.5	0.5	0.5	mA MAX.
Maximum On-State Voltage, (PEAK) at TC=25°C, and IT = Rated Amps	VTM	1.6	1.8	1.8	1.8	VOLT MAX
DC Holding Current, Gate Open and TC = 25°C	IHO	100	100	100	100	mA MAX.
Critical Rate-Of-Rise of Off-State Voltage, Gate Open, TC = 110°C	Critical dv/dt	200	200	200	200	V/µsec.
DC Gate – Trigger Current for Anode Voltage = 12VDC, RL = 60 ohm and at TC=25° C	IGT	40	40	40	50	mA MAX.
DC Gate-Trigger Voltage for Anode Voltage=12VDC, RL = 60 ohm and at TC=25°C	VGT	2	2	2	2	VOLT MAX
Gate-Controlled Turn-on Time for tD + tR, IGT=150mA and TC = 25°C	Tgt	2.5	2.5	2.5	2.5	µsec.
Thermal Resistance, Junction-to-Case	RθJ-C	1.0	0.91	1.1	0.9	°C/WATT TYP