

HUTSON INDUSTRIES, INC.

TO-218 ISOLATED* SCR

MAXIMUM RATINGS	SYMBOL	VDRM	DEVICE NUMBERS			UNITS
Repetitive Peak Off-State Voltage (1) Gate open, and Tj = 110° C	VDRM	50 100 200 400 600	HIS025 HIS125 HIS225 HIS425 HIS625	HIS040 HIS140 HIS240 HIS440 HIS640	HIS065 HIS165 HIS265 HIS465 HIS665	VOLT
RMS On-State Current at TC = 80 ° C and Conduction Angle of 360°	It(RMS)		25	40	65	AMP
Peak Surge (Non-Repetitive) On-State Current, One-Cycle, at 50Hz or 60 Hz	ITSM		250	400	650	AMP
Peak Gate-Trigger Current for 3µsec. Max.	IGTM		5	5	5	AMP
Peak Gate-Power Dissipation at IGT ≤ IGTM	PGM		20	20	20	WATT
Average Gate-Power Dissipation	PG(AV)		0.5	0.5	0.5	WATT
Storage Temperature Range	Tstg		-40 to +150			°C
Operating Temperature Range, Tj	Toper		-40 to +110			°C
ELECTRICAL CHARACTERISTICS At Specified Case Temperatures						
Peak Off-State Current, Gate Open TC = 110° C VDRM &VRRM = Max. Rating	IDRM		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	VOLT MAX
DC Holding Current, Gate Open and TC = 25°C	IHO		100	100	100	mA MAX.
Critical Rate-Of-Rise of Off-State Voltage, Gate Open, TC = 110°C	Critical dv/dt		200	200	200	V/µsec.
DC Gate – Trigger Current for Anode Voltage = $12VDC$, RL = 60Ω and at TC = 25° C	IGT		40	40	50	mA MAX.
DC Gate-Trigger Voltage for Anode Voltage = 12 VDC, RL = 60 Ω and at TC = 25 $^{\circ}$ C	VGT		2	2	2	VOLT MAX
Gate-Controlled Turn-on Time for t D + t R, IGT = 150mA and TC = 25°C	Tgt	_	2.5	2.5	2.5	µsec.
Thermal Resistance, Junction-to-Case	R _q J-C		1.1	0.95	1.0	°C/WATT TYP

^{*}All Hutson Isolated TO-218 devices are UL Recognized. UL number E95589 (N)

Note: Add "E" Suffix for Eyelet Leads

