

THYRISTOR MODULE

PGH20016AM

200A / 1600V

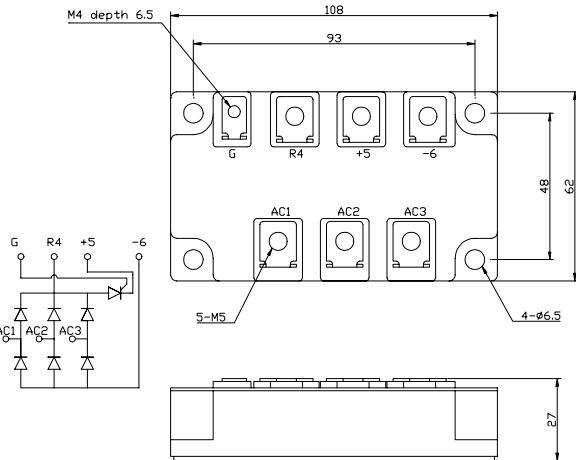
OUTLINE DRAWING

FEATURES

- * Isolated Base
- * 3 Phase Converter with Rush-Current Controllable Thyristor
- * High Surge Capability
- * UL Recognized, File No. E187184

TYPICAL APPLICATIONS

- * Converter For UPS , VVVF and Servo Motor Drive Amplifier



Approx Net Weight: 530g

Part of Diode Bridge and Thyristor Maximum Ratings

Parameter		Conditions		Max Rated Value	Unit
Average Rectified Output Current	I _{O(AV)}	3 Phase Full Wave Rectified		200	A
		Tc=90°C(Non-Bias)	Tc=65°C(Biased)		
Operating Junction Temperature Range	T _{jw}	Tj>125°C, Can not be Biased for Thyristor.		-40 to +150	°C
Storage Temperature Range	T _{stg}			-40 to +125	°C
Isolation Voltage	V _{iso}	Base Plate to Terminals, AC1min.		2500	V
Mounting torque	Case mounting	F _{tor}	Greased	M6 Screw	2.5 to 3.5
	Terminals			M6 Screw	2.5 to 3.5
				M4 Screw	1.2 to 1.6

Thermal Characteristics

Characteristics	Symbol	Test Conditions	Maximum Value.	Unit
Thermal Resistance	R _{th(c-f)}	Case to Fin, Total, Greased	0.06	°C/W

Part of Diode Bridge (6 dies)

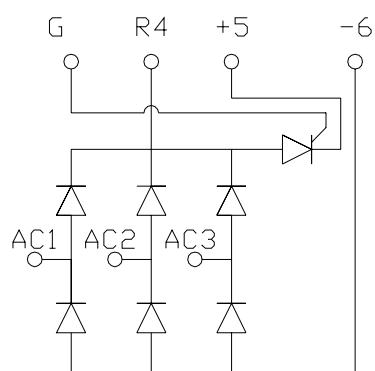
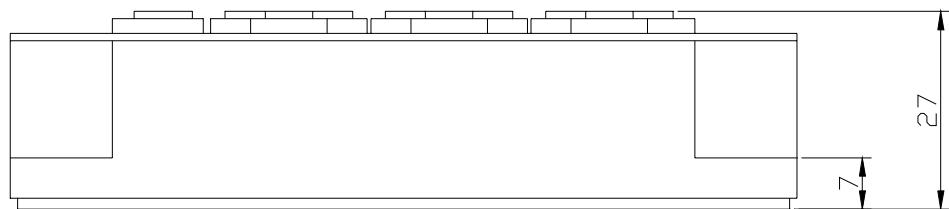
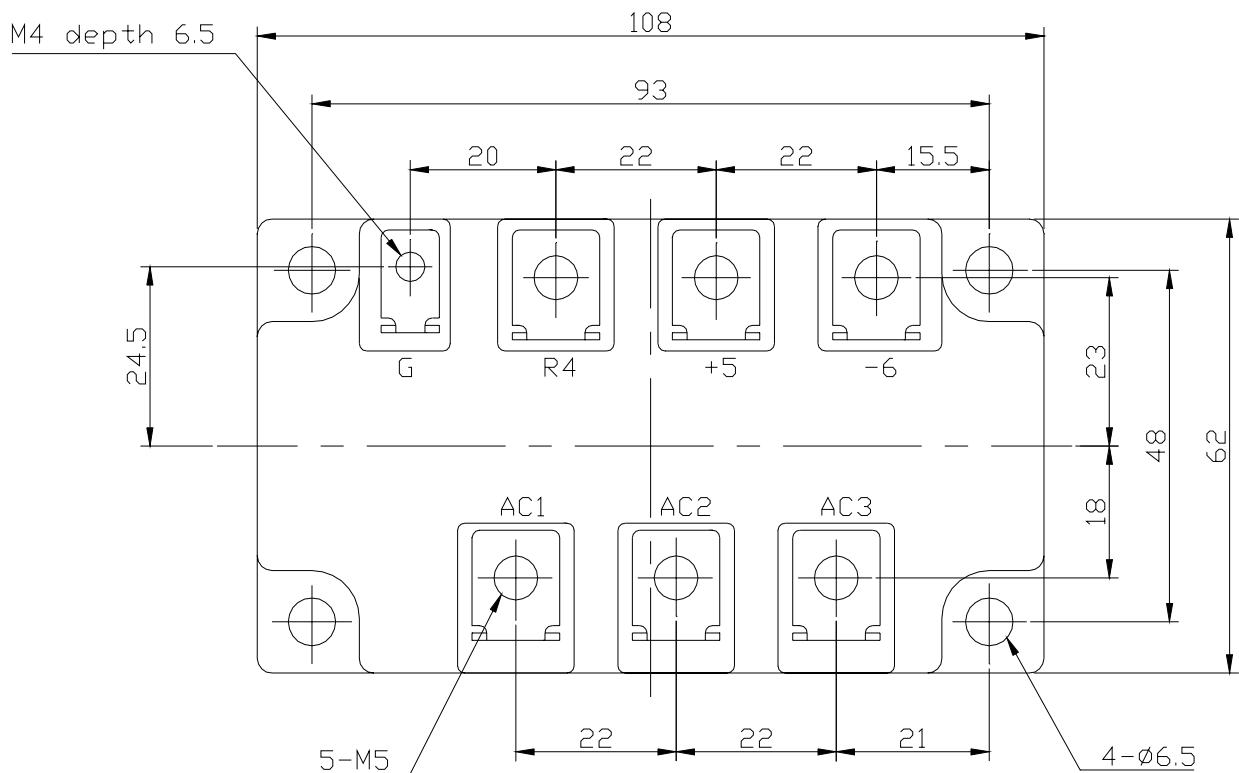
Maximum Ratings

Parameter	Symbol	Grade		Unit
		PGH20016AM		
Repetitive Peak Reverse Voltage *1	V _{RRM}	1600		V
Non Repetitive Peak Reverse Voltage *1	V _{RSM}	1700		

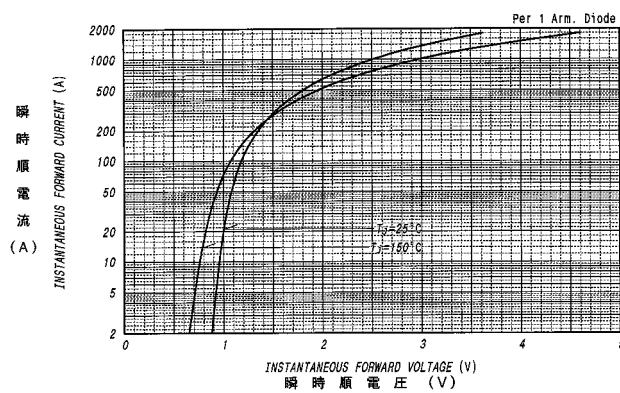
Parameter	Symbol	Conditions	Max Rated Value	Unit
Surge Forward Current *1	I _{FSM}	50 Hz Half Sine Wave, 1Pulse, Non-Repetitive	1800	A
I Squared t *1	I ² t	2msec to 10msec	16200	A ² s
Allowable Operating Frequency	f		400	Hz

*1 Value Per 1 Arm

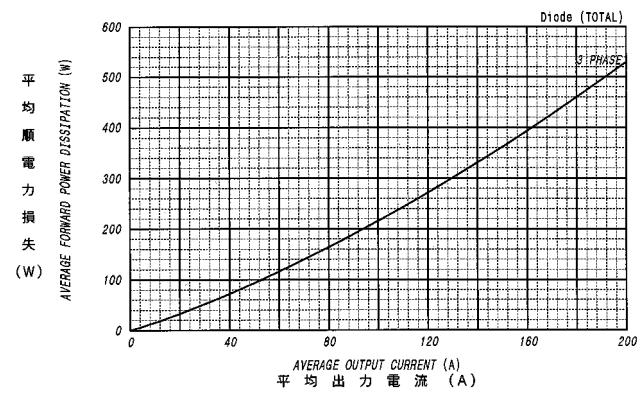
PGH20016AM OUTLINE DRAWING (Dimensions in mm)



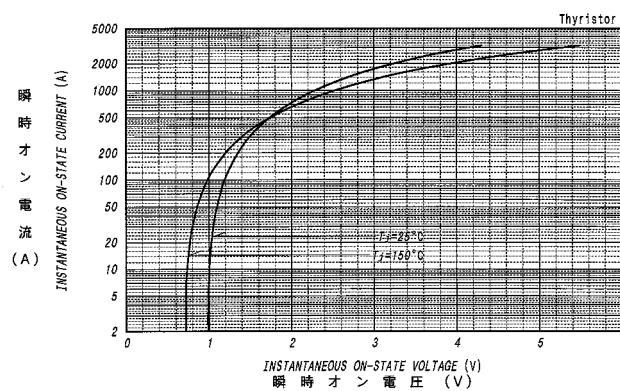
順電圧特性
FORWARD CURRENT VS. VOLTAGE



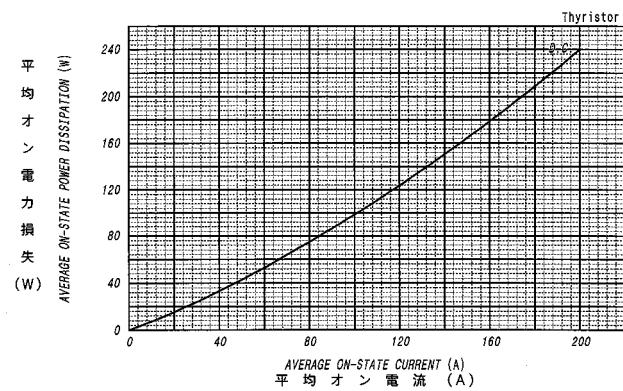
平均順電力損失特性
AVERAGE FORWARD POWER DISSIPATION



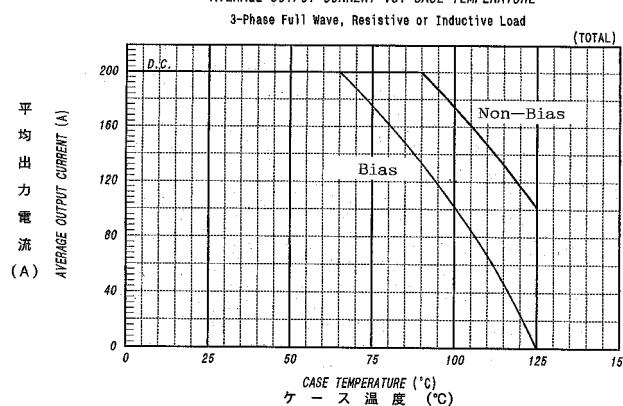
オン電圧特性
ON-STATE CURRENT VS. VOLTAGE



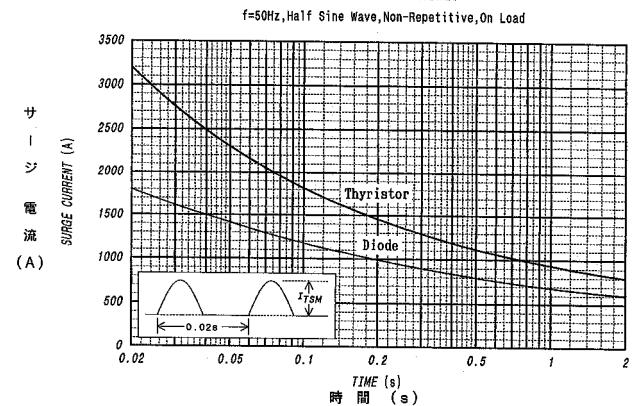
平均オン電力損失特性
AVERAGE ON-STATE POWER DISSIPATION



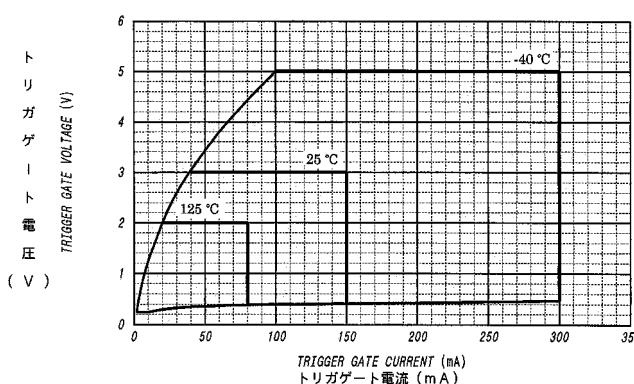
平均出力電流 - ケース温度定格
AVERAGE OUTPUT CURRENT VS. CASE TEMPERATURE



サージ電流定格
SURGE CURRENT RATINGS



ゲート特性
GATE CHARACTERISTICS



ゲート定格
GATE RATINGS

