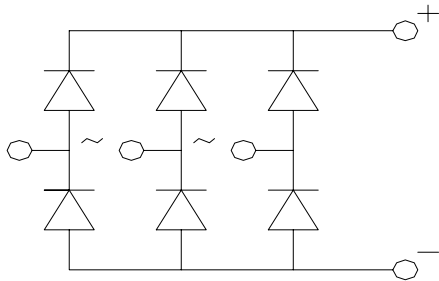


PT100S16

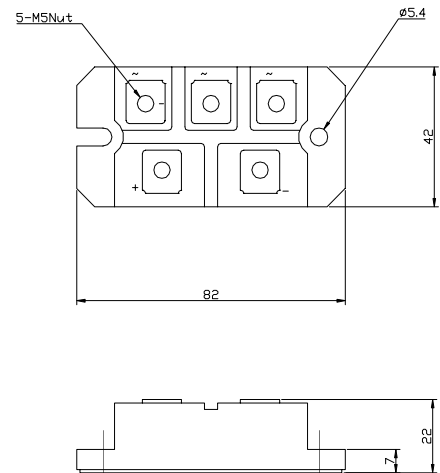
DIODE

100A(Avg) 1600Volts

■回路図 Circuit



■外形図 OUTLINE



■最大定格/ Maximum Ratings

■質量： Approx Net Weight:180g

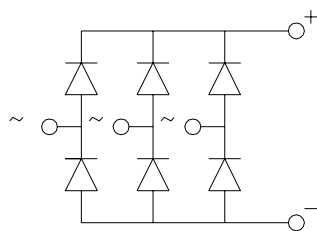
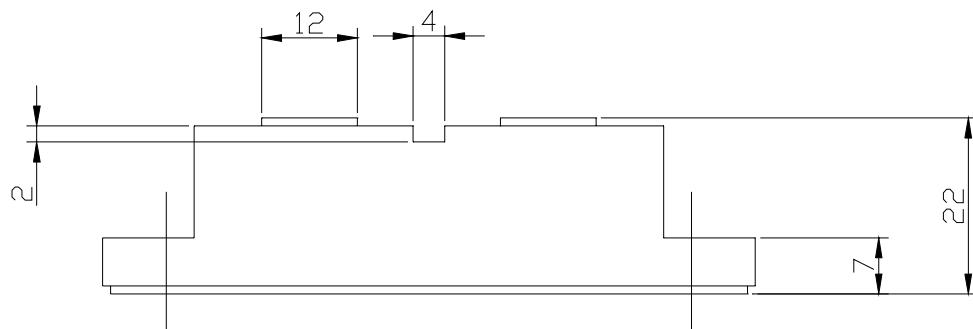
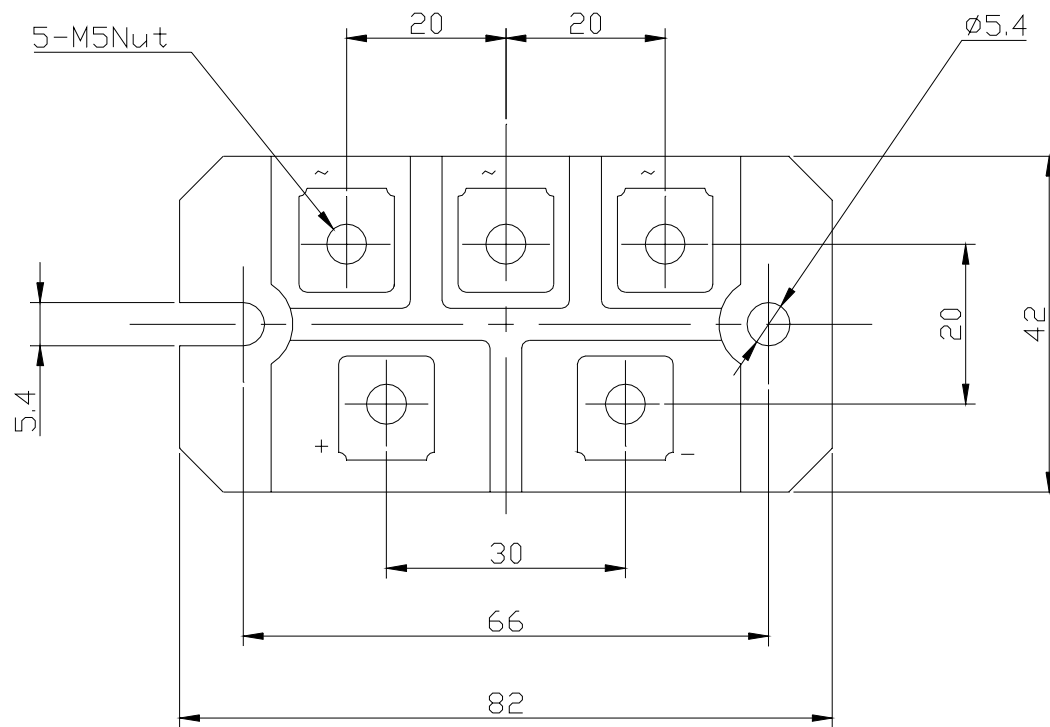
Rating		Symbol	PT100S16			Unit
くり返しピーク逆電圧 *1 Repetitive Peak Reverse Voltage		V _{RRM}	1600			V
非くり返しピーク逆電圧 *1 Non Repetitive Peak Reverse Voltage		V _{RSM}	1700			
平均整流電流 Average Rectified Output Current		I _{O(AV)}	三相全波整流Tc=Tt(Terminal)=70℃ 3-Phase Full Wave Rectified		100	A
サージ順電流 *1 Surge Forward Current		I _{FSM}	50 Hz Half Sine Wave,1Pulse Non-repetitive		1200	A
電流二乗時間積 I Squared t		I ² t	2msec to 10msec		7200	A ² s
動作接合温度範囲 Operating JunctionTemperature Range		T _{jw}	-40 to +125			℃
保存温度範囲 Storage Temperature Range		T _{stg}	-40 to +125			℃
絶縁耐圧 Isoration Voltage		Viso	端子 - 裏面ベース間,AC 1 分間 Base Plate to Terminals, AC1min		2500	V
締付トルク Mounting torque	ベース部(mounting)	F _{tor}	推奨値 Recommended value	M5	2.4 to 2.8	N・m
	主端子部(Terminals)			M5	2.4 to 2.8	

■電氣的・熱的特性/ Electrical • Thermal Characteristics

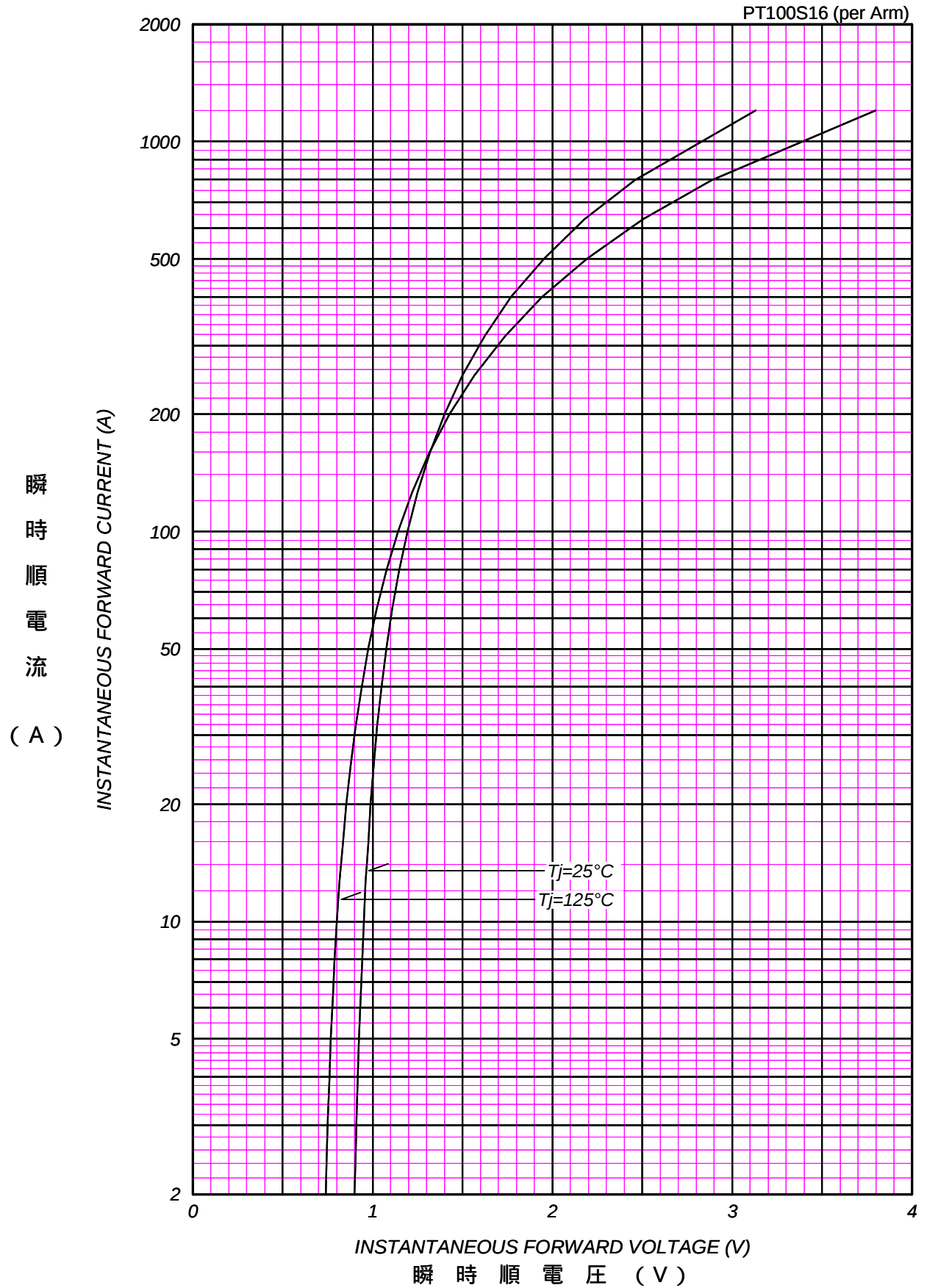
Characteristics	Symbol	Conditions	Max.	Unit
ピーク逆電流 *1 Peak Reverse Current	I_{RM}	$V_{RM} = V_{RRM}$, $T_j = 125^\circ\text{C}$	15	mA
ピーク逆電圧 *1 Peak Forward Voltage	V_{FM}	$I_{FM} = 100\text{A}$, $T_j = 25^\circ\text{C}$	1.2	V
熱抵抗 Thermal Resistance	$R_{th(j-c)}$	接触部・ケース間 (トータル) Junction to Case (Total)	0.24	°C/W
接触熱抵抗 Thermal Resistance	$R_{th(c-f)}$	ケース・フィン間、サーマルコンパウンド塗布 Base Plate to Heat Sink with Thermal Compound (Total)	0.06	

*1: 1 アーム当たりの値 Value Per 1Arm

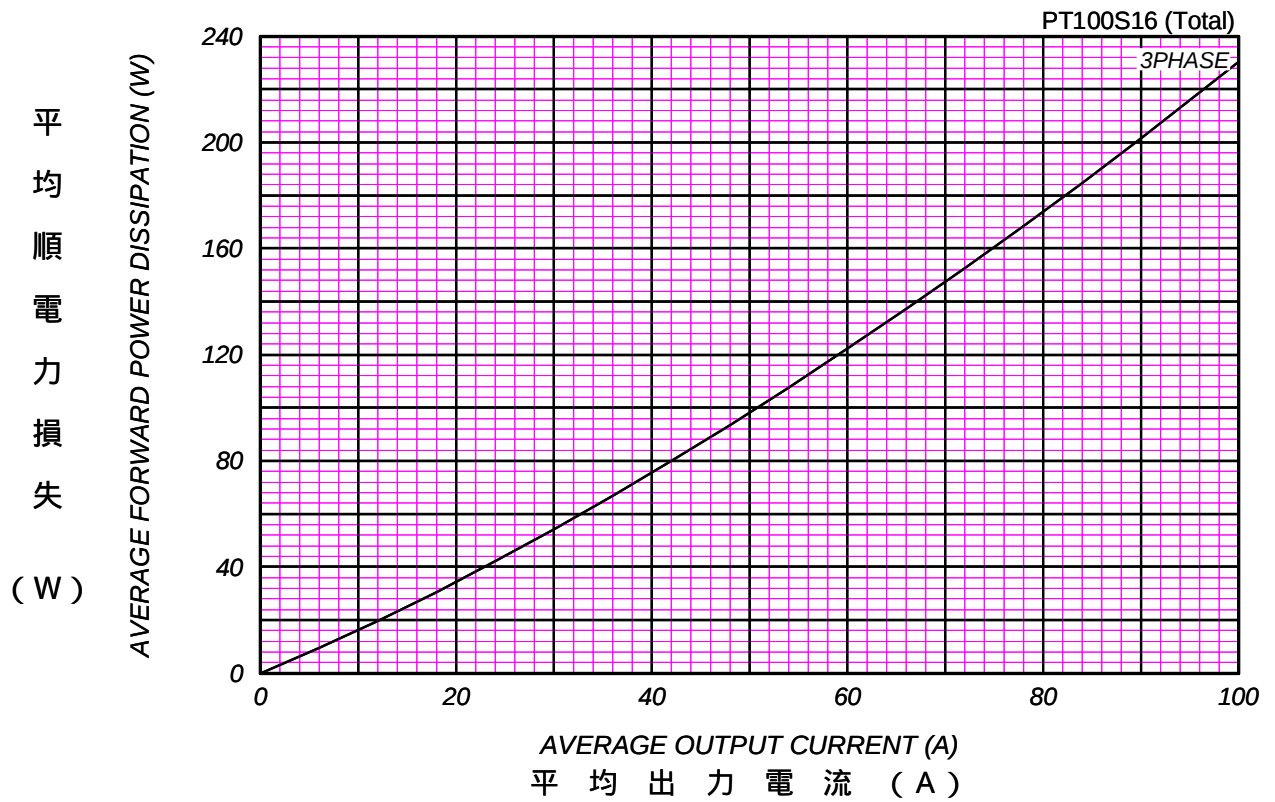
PT100S16 OUTLINE DRAWING (Dimensions in mm)



順電圧特性
FORWARD CURRENT VS. VOLTAGE

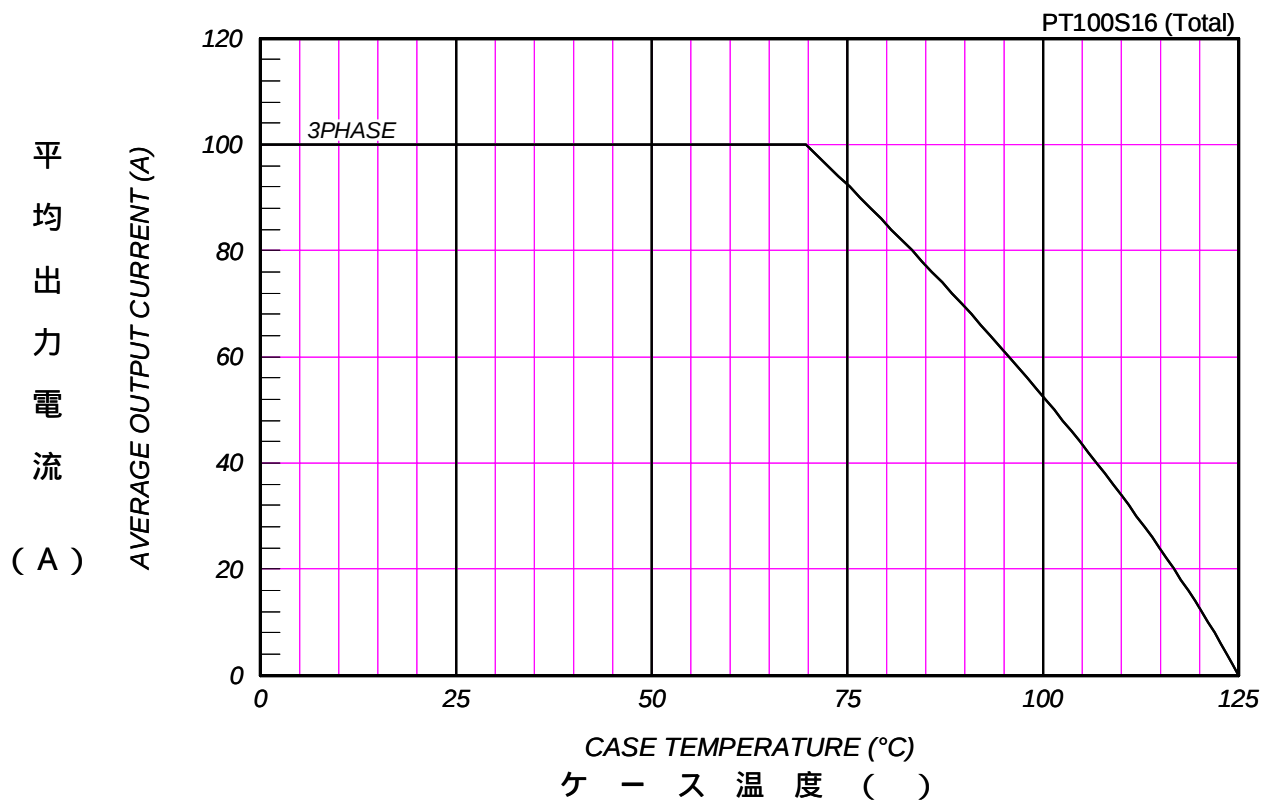


平均順電力損失特性
AVERAGE FORWARD POWER DISSIPATION



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

3-Phase Full Wave, Resistive or Inductive Load



サージ順電流定格 SURGE CURRENT RATINGS

f=50Hz, Half Sine Wave, Non-Repetitive, Tj=125°C

PT100S16

サ
ー
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順
電
流

(A)

SURGE FORWARD CURRENT (A)

