

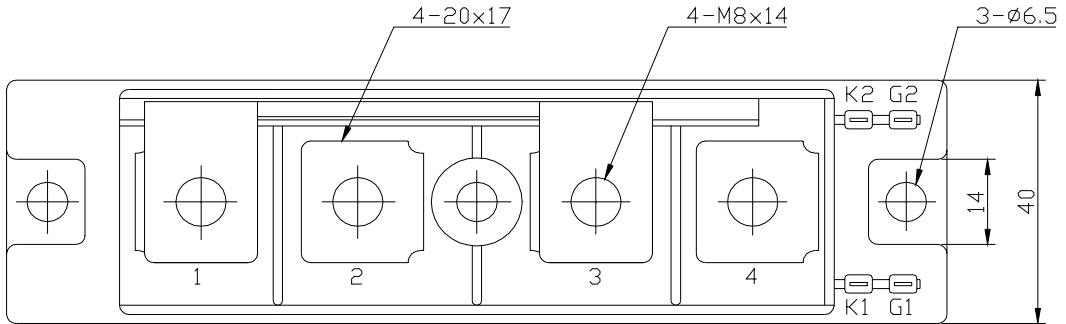


**Electrical • Thermal Characteristics**

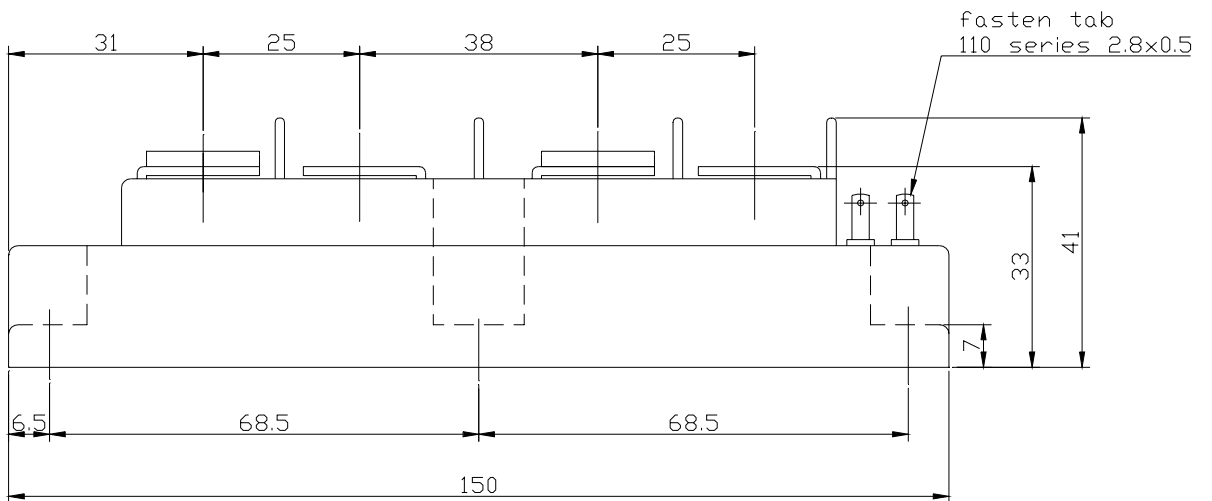
Characteristics	Symbol	Test Conditions	Maximum Value.			Unit
			Min.	Typ.	Max.	
Peak Off-State Current	$I_{DM}$	$V_{DM} = V_{DRM}, T_j = 125^\circ\text{C}$			80	mA
Peak Reverse Current	$I_{RM}$	$V_{RM} = V_{RRM}, T_j = 125^\circ\text{C}$			80	mA
Peak Forward Voltage	$V_{TM}$	$I_{TM} = 600\text{A}, T_j = 25^\circ\text{C}$			1.28	V
Gate Current to Trigger	$I_{GT}$	$V_D = 6\text{V}, I_T = 1\text{A}$	$T_j = -40^\circ\text{C}$		300	mA
			$T_j = 25^\circ\text{C}$		150	
			$T_j = 125^\circ\text{C}$		80	
Gate Voltage to Trigger	$V_{GT}$	$V_D = 6\text{V}, I_T = 1\text{A}$	$T_j = -40^\circ\text{C}$		5	V
			$T_j = 25^\circ\text{C}$		3	
			$T_j = 125^\circ\text{C}$		2	
Gate Non-Trigger Voltage	$V_{GD}$	$V_D = 2/3V_{DRM}, T_j = 125^\circ\text{C}$	0.25			V
Critical Rate of Rise of Off-State Voltage	$dv/dt$	$V_D = 2/3V_{DRM}, T_j = 125^\circ\text{C}$	500			V/ $\mu\text{s}$
Turn-Off Time	$t_q$	$I_{TM} = I_O, V_D = 2/3V_{DRM}$ $dv/dt = 20\text{V}/\mu\text{s}, V_R = 100\text{V}$ $-di/dt = 20\text{A}/\mu\text{s}, T_j = 125^\circ\text{C}$		100		$\mu\text{s}$
Turn-On Time	$t_{gt}$	$V_D = 2/3V_{DRM}, T_j = 125^\circ\text{C}$ $I_G = 300\text{mA}, di_G/dt = 0.2\text{A}/\mu\text{s}$		6		$\mu\text{s}$
Delay Time	$t_d$			2		$\mu\text{s}$
Rise Time	$t_r$			4		$\mu\text{s}$
Latching Current	$I_L$	$T_j = 25^\circ\text{C}$		150		mA
Holding Current	$I_H$	$T_j = 25^\circ\text{C}$		100		
Thermal Resistance	$R_{th(j-c)}$	Junction to Case			0.2	$^\circ\text{C}/\text{W}$
	$R_{th(c-f)}$	Base Plate to Heat Sink with Thermal Compound			0.1	

Value Per 1Arm

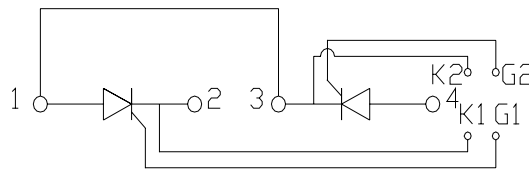
**PDT/PDH2001x OUTLINE DRAWING (Dimensions in mm)**



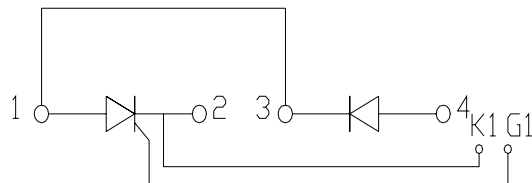
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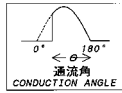
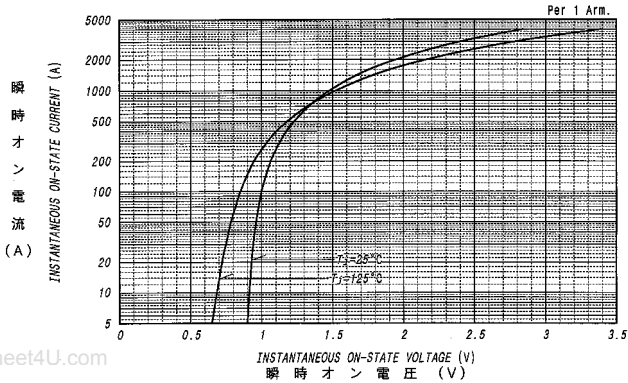
**PDT**



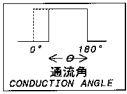
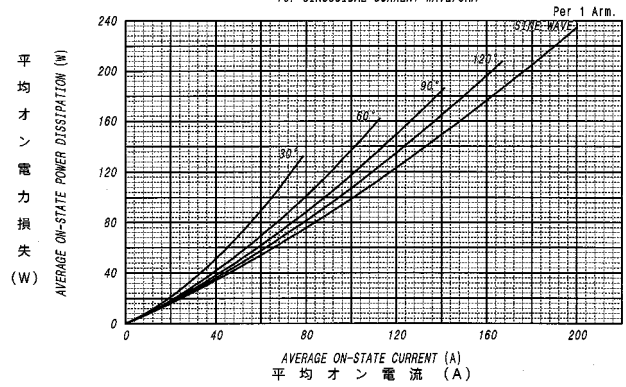
**PDH**



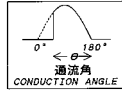
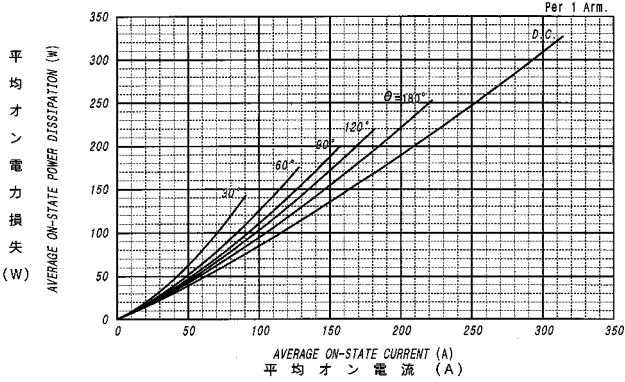
オン電圧特性  
ON-STATE CURRENT VS. VOLTAGE



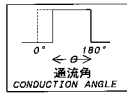
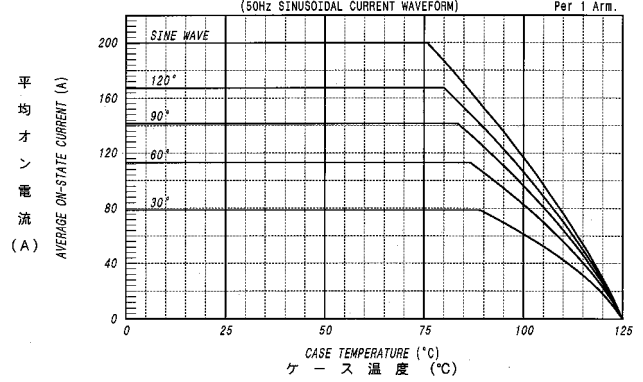
平均オン電力損失特性  
AVERAGE ON-STATE POWER DISSIPATION



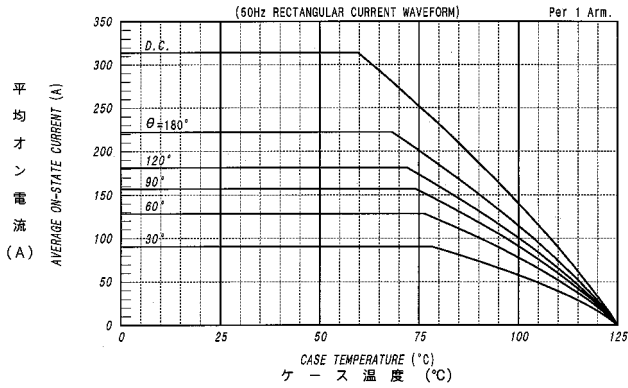
平均オン電力損失特性  
AVERAGE ON-STATE POWER DISSIPATION



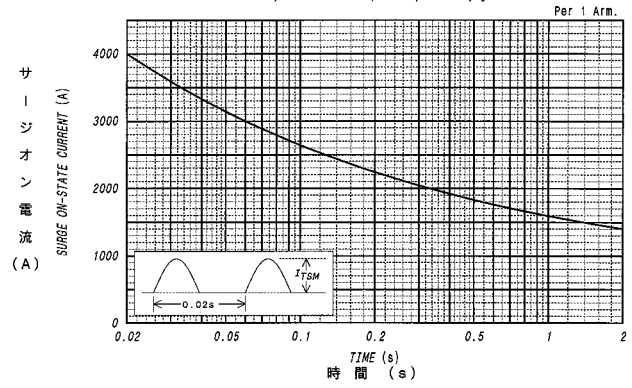
平均オン電流 - ケース温度定格  
AVERAGE ON-STATE CURRENT VS. CASE TEMPERATURE



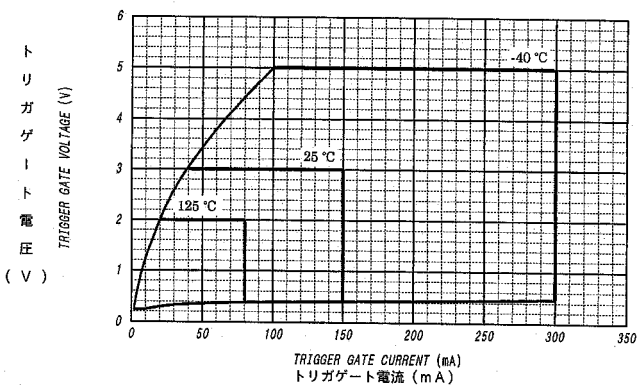
平均オン電流 - ケース温度定格  
AVERAGE ON-STATE CURRENT VS. CASE TEMPERATURE



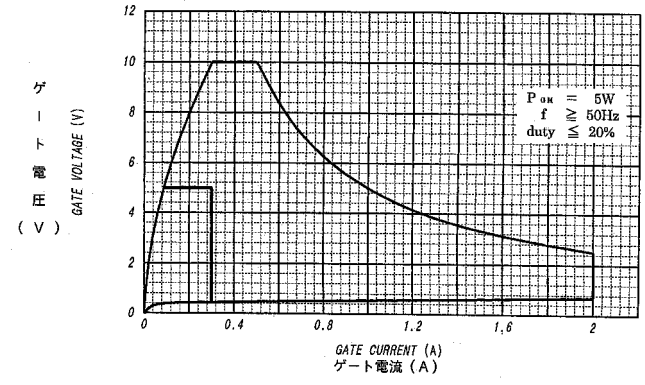
サージオン電流定格  
SURGE CURRENT RATINGS



ゲート特性  
GATE CHARACTERISTICS



ゲート定格  
GATE RATINGS



過渡熱抵抗特性  
 MAXIMUM TRANSIENT THERMAL IMPEDANCE  
 Junction to Case

