



## ■電気的特性 Electrical Characteristics

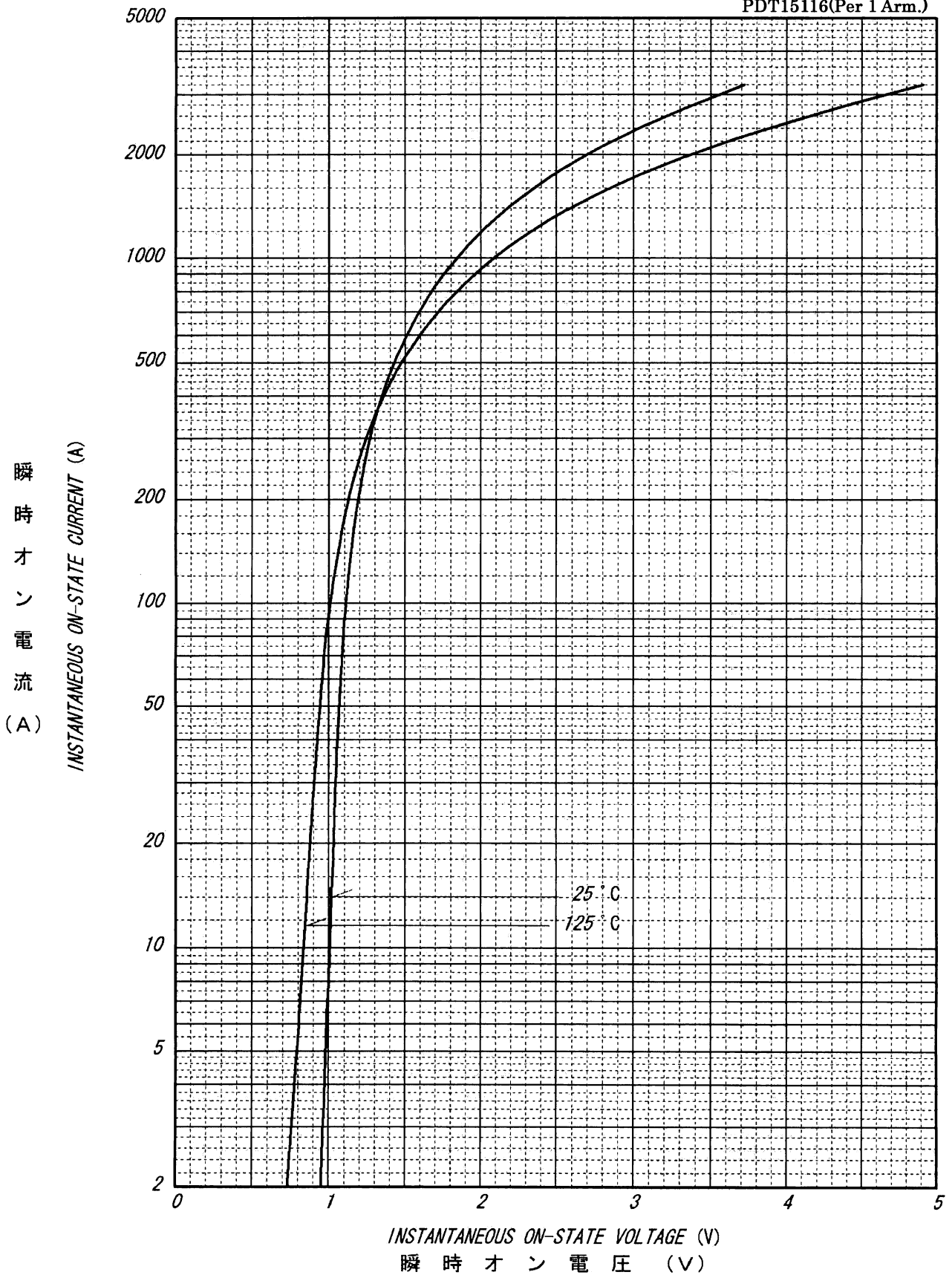
項目 Parameter	記号 Symbol	条件 Conditions	特性値 (最大) Maximum Value			単位 Unit
			最小 Min	標準 Typ	最大 Max	
ピークオフ電流 Peak Off-State Current	$I_{DM}$	$T_j = 125^\circ\text{C}$ , $V_{DM} = V_{DRM}$			50	mA
ピーク逆電流 Peak Reverse Current	$I_{RM}$	$T_j = 125^\circ\text{C}$ , $V_{RM} = V_{RRM}$			50	mA
ピークオン電圧 Peak Off-State Voltage	$V_{TM}$	$T_j = 25^\circ\text{C}$ , $I_{TM} = 450\text{A}$			1.38	V
トリガゲート電流 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	
トリガゲート電圧 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	
非トリガゲート電圧 Gate Non-Trigger Voltage	$V_{GD}$	$T_j = 125^\circ\text{C}$ , $V_D = 2/3 V_{DRM}$	0.25			V
臨界オフ電圧上昇率 Critical Rate of Rise of Off-State Voltage	$dv/dt$	$T_j = 125^\circ\text{C}$ , $V_D = 2/3 V_{DRM}$	500			V/ $\mu\text{s}$
ターンオフ時間 Turn-Off Time	$t_q$	$T_j = 125^\circ\text{C}$ , $I_{TM} = I_o$ , $V_D = 2/3 V_{DRM}$ $dv/dt = 20\text{V}/\mu\text{s}$ , $V_R = 100\text{V}$ , $-di/dt = 20\text{A}/\mu\text{s}$		100		$\mu\text{s}$
ターンオン時間 Turn-On Time	$t_{gt}$	$T_j = 25^\circ\text{C}$ , $V_D = 2/3 V_{DRM}$ $I_G = 300\text{mA}$ , $di_G/dt = 0.2\text{A}/\mu\text{s}$		6		$\mu\text{s}$
遅れ時間 Delay Time	$t_d$			2		$\mu\text{s}$
立ち上がり時間 Rise Time	$t_r$			4		$\mu\text{s}$
ラッチング電流 Latching Current	$I_L$		$T_j = 25^\circ\text{C}$		120	
保持電流 Holding Current	$I_H$	$T_j = 25^\circ\text{C}$		80		mA
熱抵抗 Thermal Resistance	$R_{th(j-c)}$	接合部-ケース間 Junction to Case			0.25	$^\circ\text{C}/\text{W}$
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 Case to Fin, Greased			0.15	$^\circ\text{C}/\text{W}$

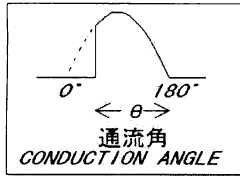
質量 --- 約280 g  
Approximate Weight

1アーム当りの値 Value Per 1 Arm.

オン電圧特性  
ON-STATE CURRENT VS. VOLTAGE

PDT15116(Per 1 Arm.)



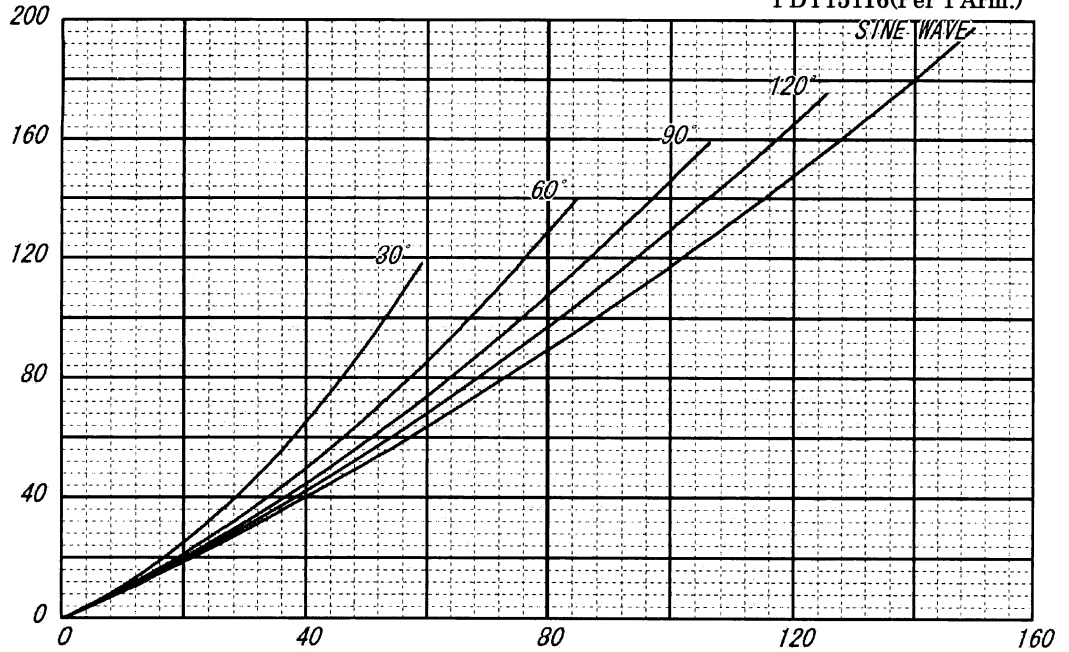


平均オン電力損失特性  
AVERAGE ON-STATE POWER DISSIPATION

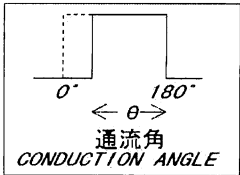
for SINUSOIDAL CURRENT WAVEFORM

PDT15116(Per 1 Arm.)

平均オン電力損失 (W)  
AVERAGE ON-STATE POWER DISSIPATION (W)



AVERAGE ON-STATE CURRENT (A)  
平均オン電流 (A)

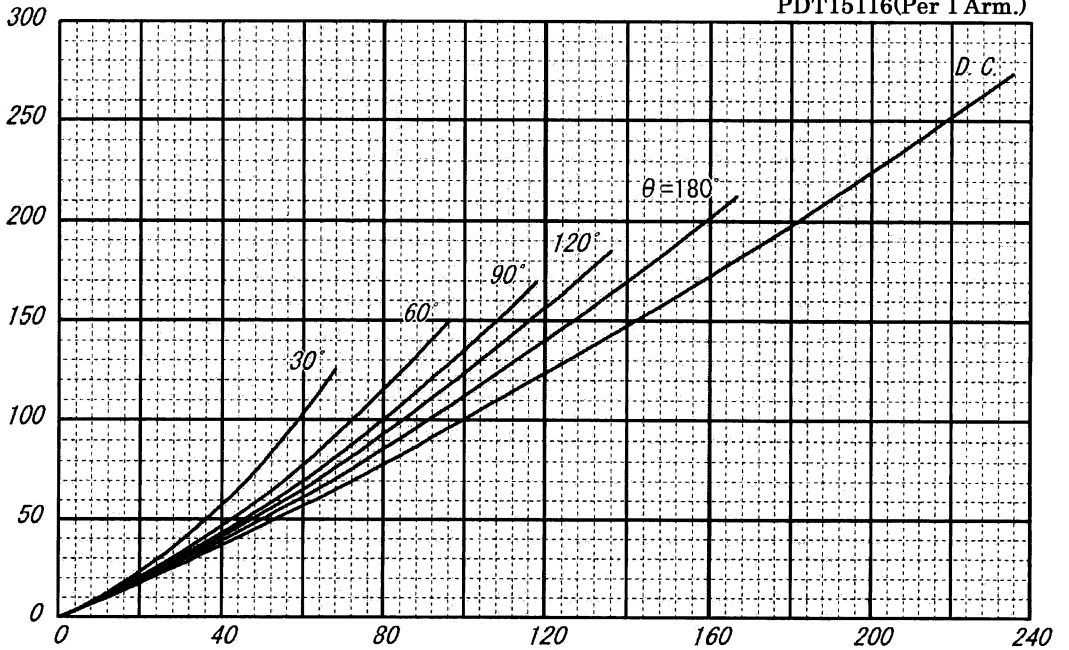


平均オン電力損失特性  
AVERAGE ON-STATE POWER DISSIPATION

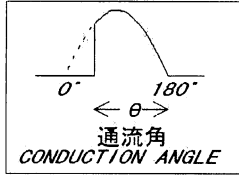
for RECTANGULAR CURRENT WAVEFORM

PDT15116(Per 1 Arm.)

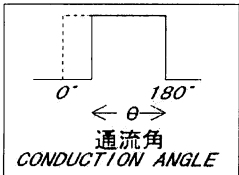
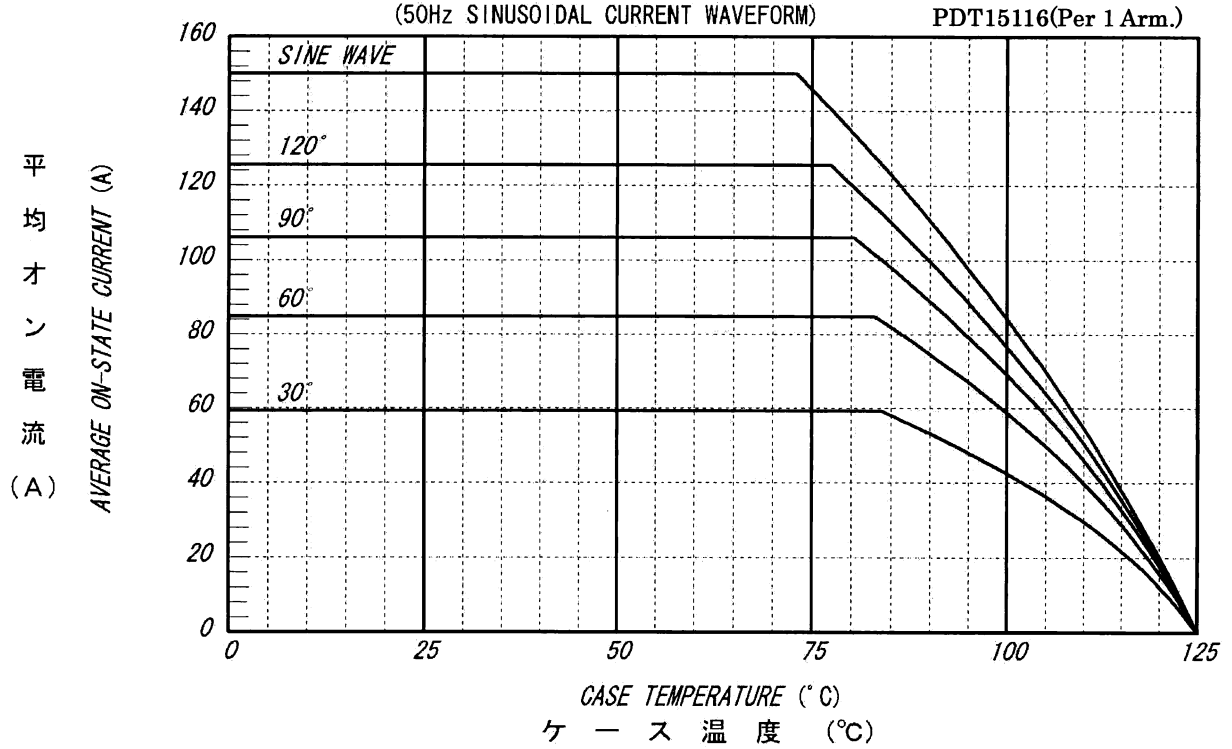
平均オン電力損失 (W)  
AVERAGE ON-STATE POWER DISSIPATION (W)



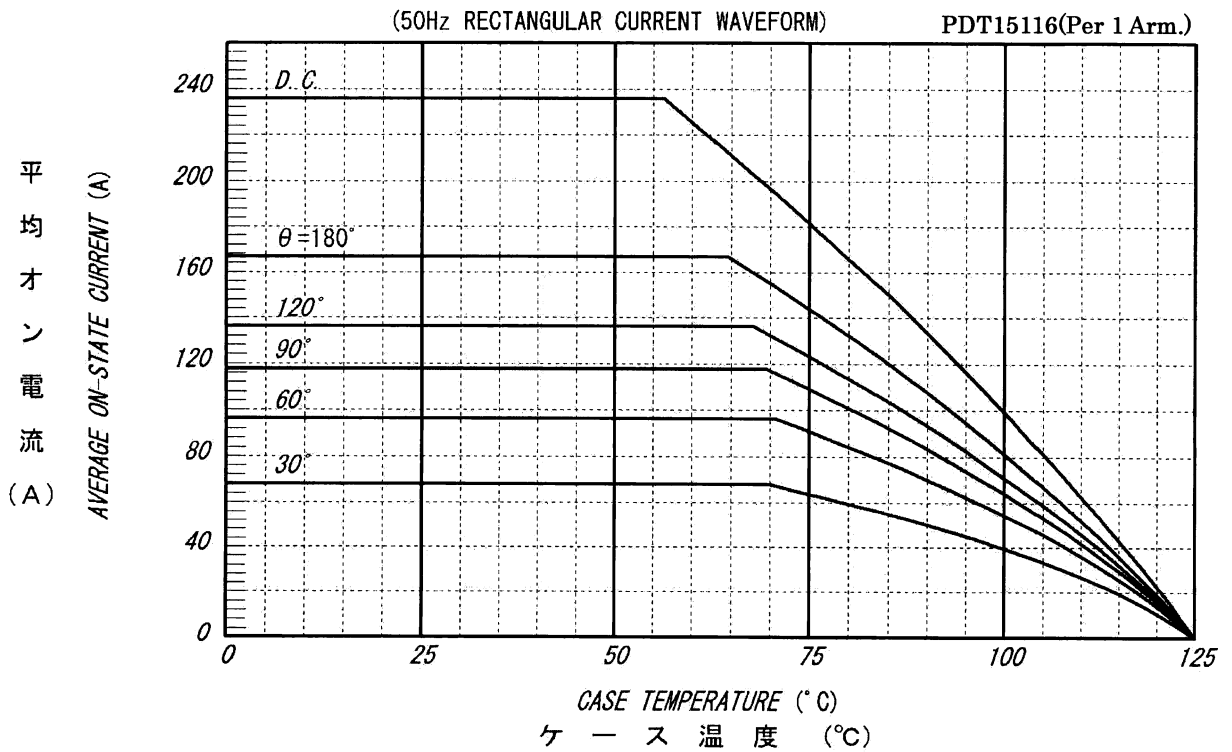
AVERAGE ON-STATE CURRENT (A)  
平均オン電流 (A)



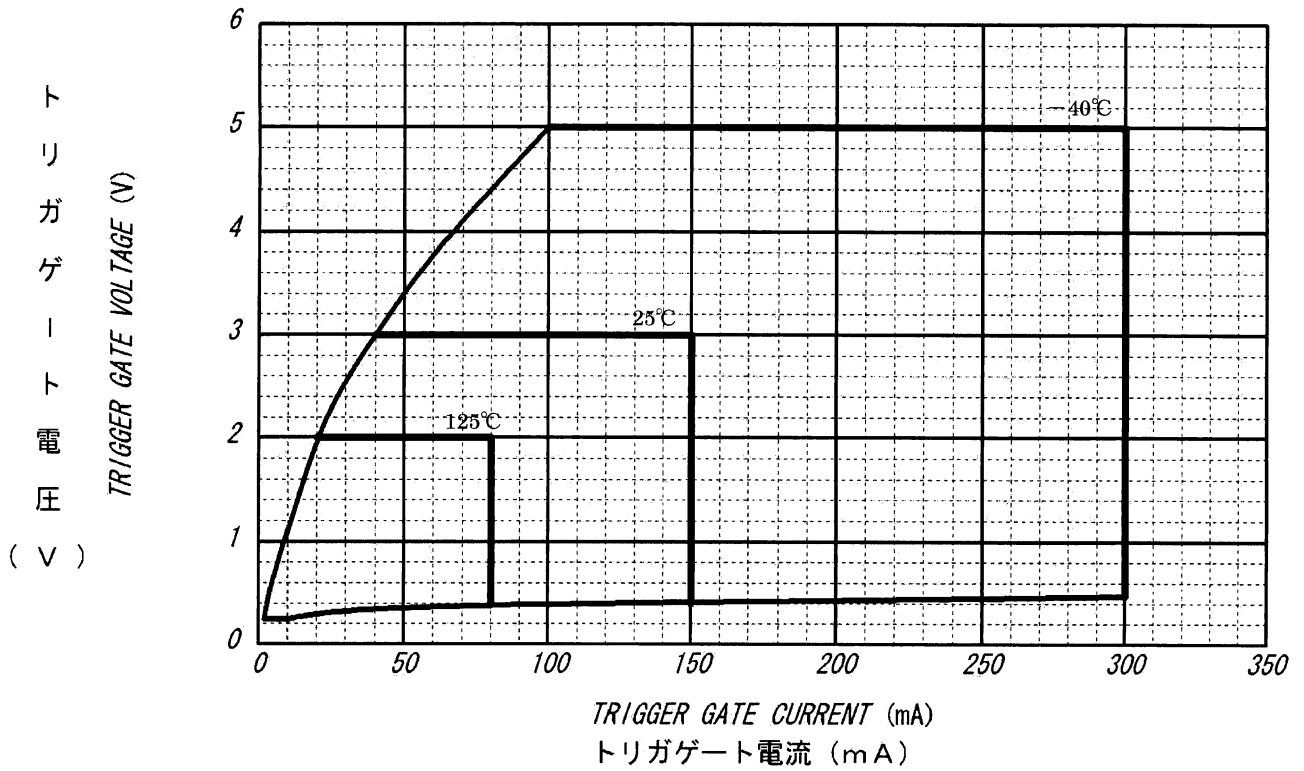
平均オン電流－ケース温度定格  
AVERAGE ON-STATE CURRENT VS. CASE TEMPERATURE



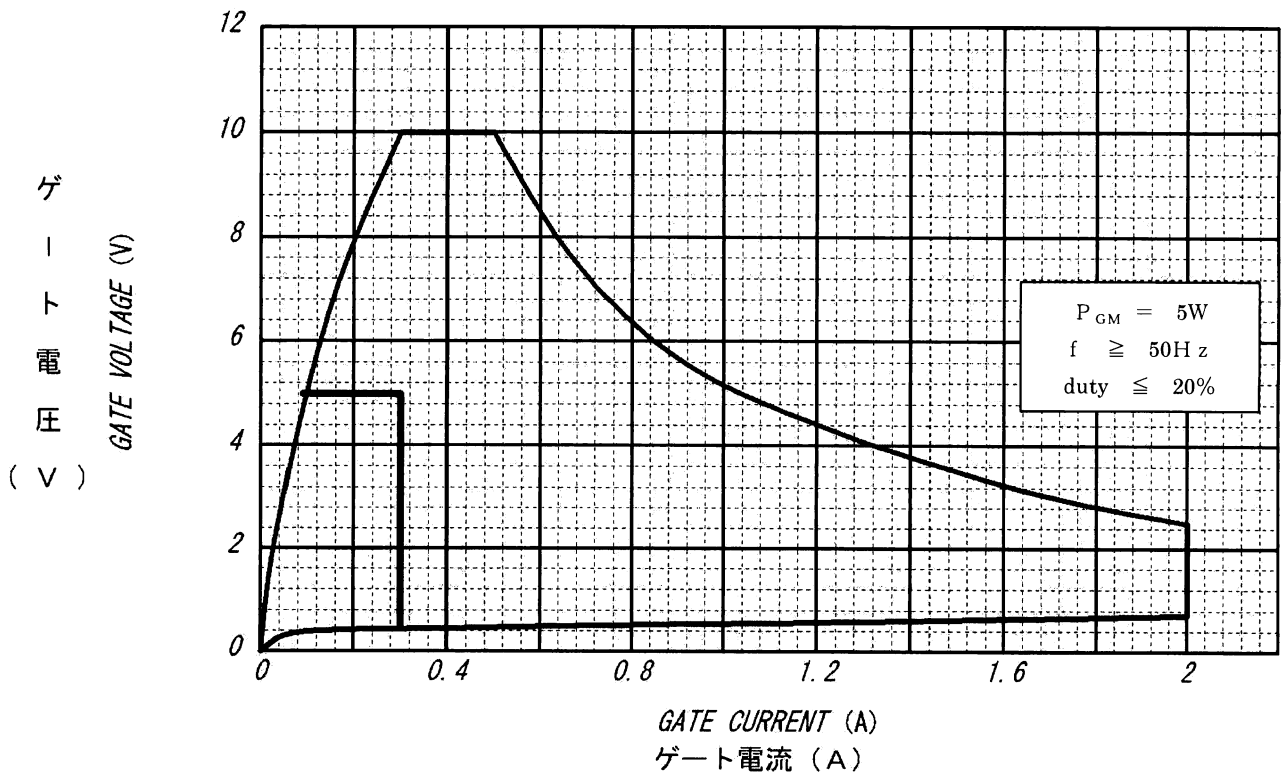
平均オン電流－ケース温度定格  
AVERAGE ON-STATE CURRENT VS. CASE TEMPERATURE



ゲート特性  
GATE CHARACTERISTICS



ゲート定格  
GATE RATINGS



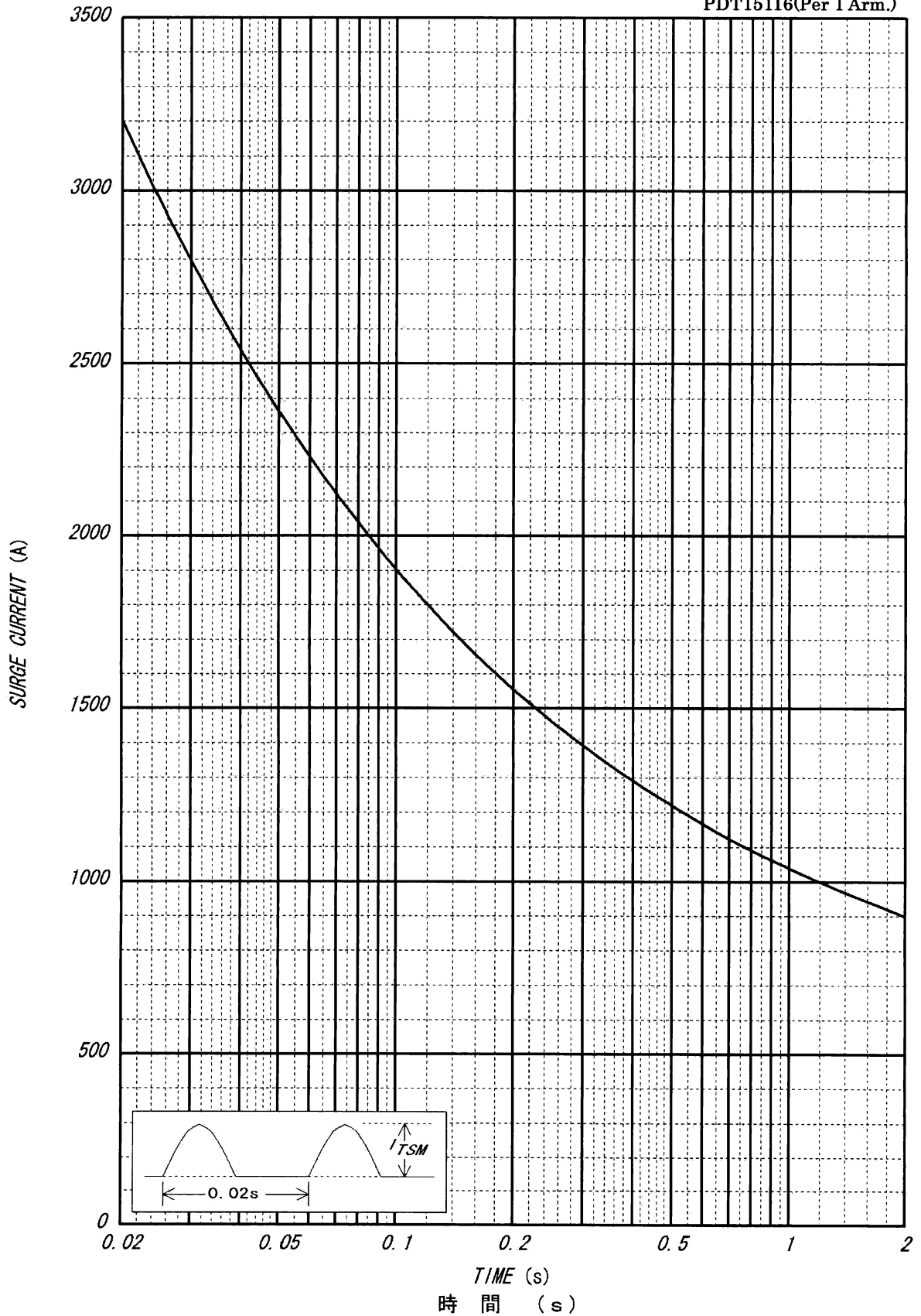


サージ電流定格  
SURGE CURRENT RATINGS

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

PDT15116(Per 1 Arm.)

サ  
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ジ  
電  
流  
(A)



過渡熱抵抗特性  
MAXIMUM TRANSIENT THERMAL IMPEDANCE

