

SANYO

No.800D

DTA 2

Silicon Planar Type

2.0A Bidirectional Thyristor**Features**

- Low AC power control
- TO-202 package facilitating easy mounting
- Peak OFF-state voltage : 100 to 400V
- RMS ON-state current : 2A
- Weight : 1.5g

Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

			DTA2B	DTA2C	DTA2E	unit
Repetitive Peak OFF-State Voltage	V_{DRM}		100	200	400	V
RMS ON-State Current	$I_{\text{T(RMS)}}$	$T_c = 70^\circ\text{C}$, single-phase full-wave Peak 1 cycle, 50Hz	→	→	2	A
Surge ON-State Current	I_{TSM}		→	→	12	A
Amperes Squared-Seconds	$\int i^2 T \cdot dt$		→	→	0.7	A^2s
Peak Gate Power Dissipation	P_{GM}		→	→	3	W
Average Gate Power Dissipation	$P_{\text{G(AV)}}$		→	→	0.3	W
Peak Gate Current	I_{GM}		→	→	1.6	A
Peak Gate Voltage	V_{GM}		→	→	10	V
Junction Temperature	T_j		→	→	110	$^\circ\text{C}$
Storage Temperature	T_{stg}		→	→	-40 to +110	$^\circ\text{C}$

Electrical Characteristics at $T_a = 25^\circ\text{C}$

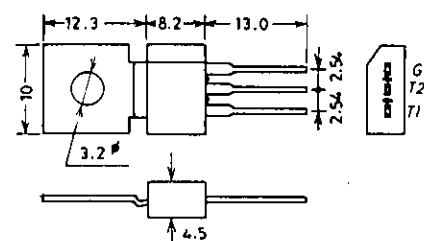
			min	typ	max	unit
Repetitive Peak OFF-State Current	I_{DRM}	$T_j = 110^\circ\text{C}, V_D = V_{\text{DRM}}$			0.1	mA
ON-State Voltage	V_T	$I_T = 6\text{A}$			2.6	V
Holding Current	I_H	$R_L = 100\Omega$			25	mA
Gate Trigger Current ※ (I)	I_{GT}	$V_D = 12\text{V}, R_L = 20\Omega$			15	mA
" (II)	I_{GT}	$V_D = 12\text{V}, R_L = 20\Omega$			15	mA
" (III)	I_{GT}	$V_D = 12\text{V}, R_L = 20\Omega$			—	
" (IV)	I_{GT}	$V_D = 12\text{V}, R_L = 20\Omega$			15	mA
Gate Trigger Voltage ※ (I)	V_{GT}	$V_D = 12\text{V}, R_L = 20\Omega$			2.3	V
" (II)	V_{GT}	$V_D = 12\text{V}, R_L = 20\Omega$			2.3	V
" (III)	V_{GT}	$V_D = 12\text{V}, R_L = 20\Omega$			—	
" (IV)	V_{GT}	$V_D = 12\text{V}, R_L = 20\Omega$			2.3	V
Gate Nontrigger Voltage	V_{GD}	$T_c = 110^\circ\text{C}, V_D = V_{\text{DRM}}$	0.2			V
Thermal Resistance	$R_{\text{th(j-c)}}$				12	$^\circ\text{C/W}$

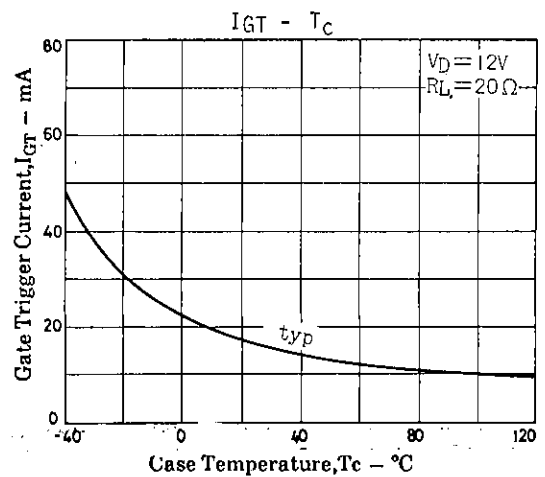
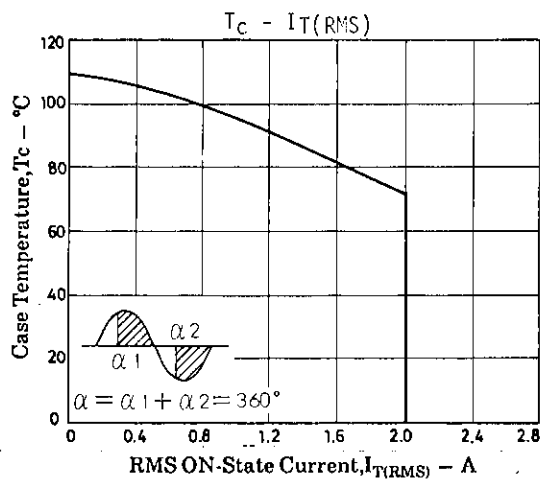
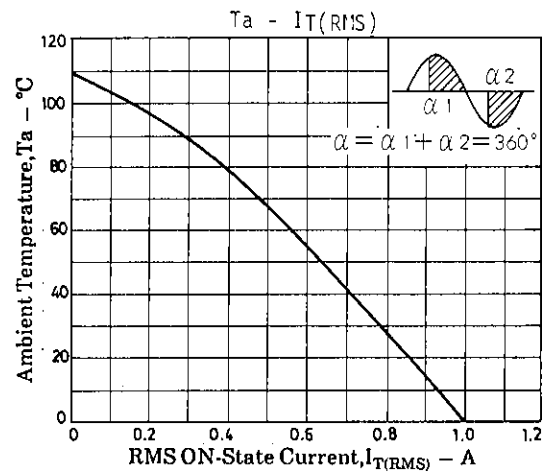
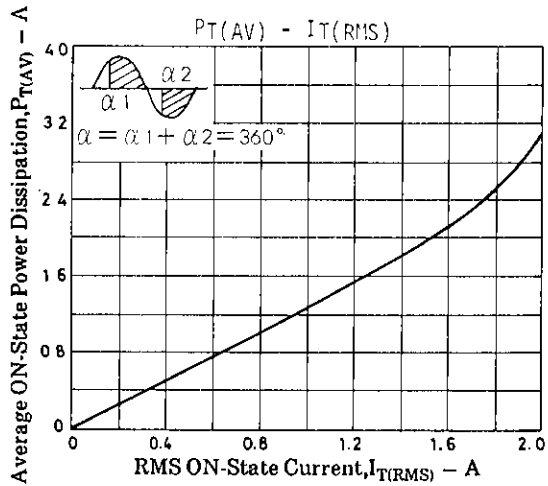
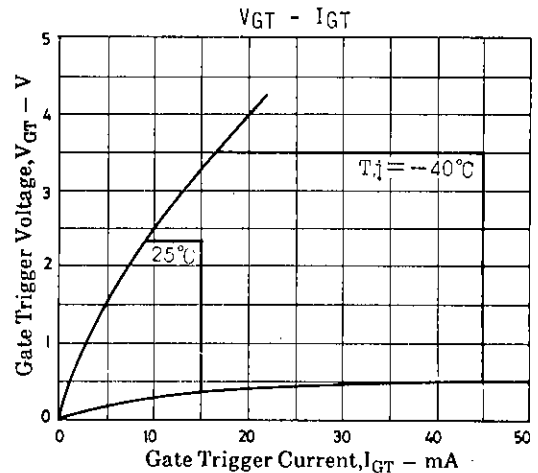
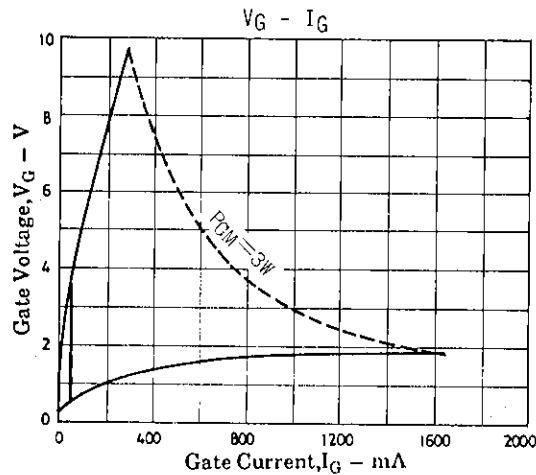
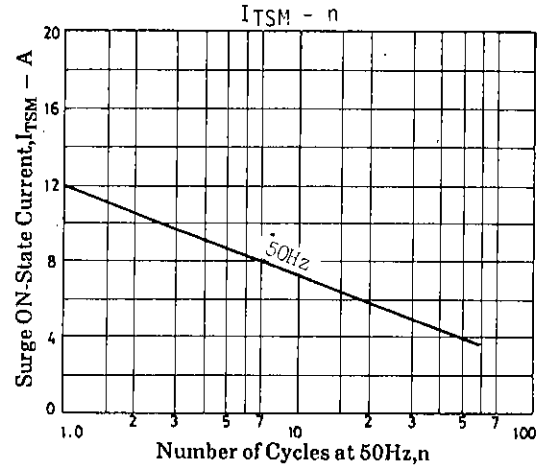
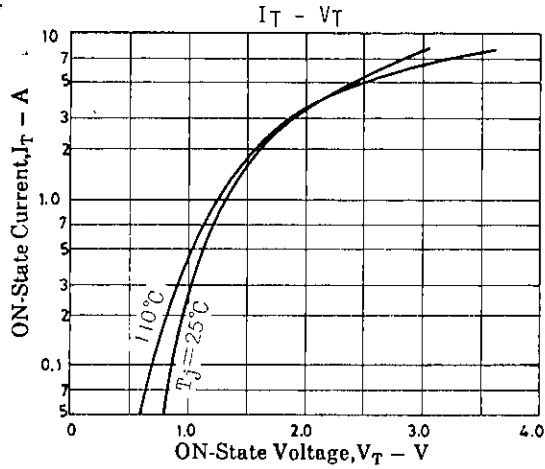
※ : The gate trigger mode is shown below.

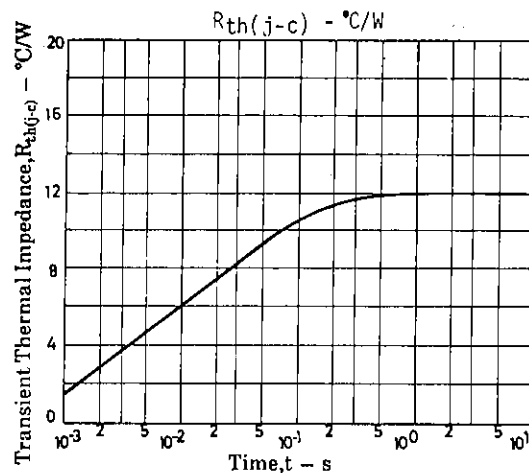
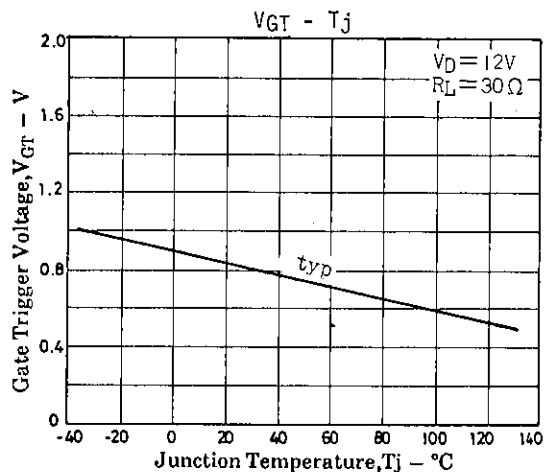
Trigger mode	T2	T1	G
I	+	—	+
II	+	—	—
III	—	+	+
IV	—	+	—

Package Dimensions 1102

(unit: mm)







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