

SANYO

No. 1872A

DRA2T

Silicon Planar Type

2.0A Reverse Blocking Thyristor**Features**

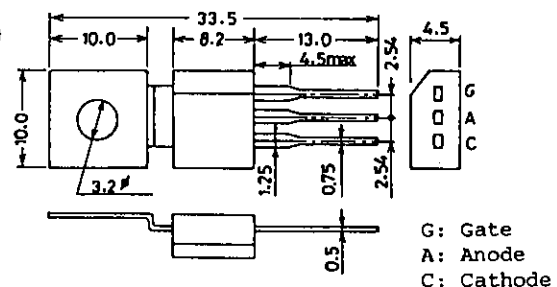
- TO202 package facilitating easy mounting
- Peak OFF-state (reverse) voltage : - 100 to - 600V
- Average ON-state current : 2A

Absolute Maximum Ratings at Ta = 25°C

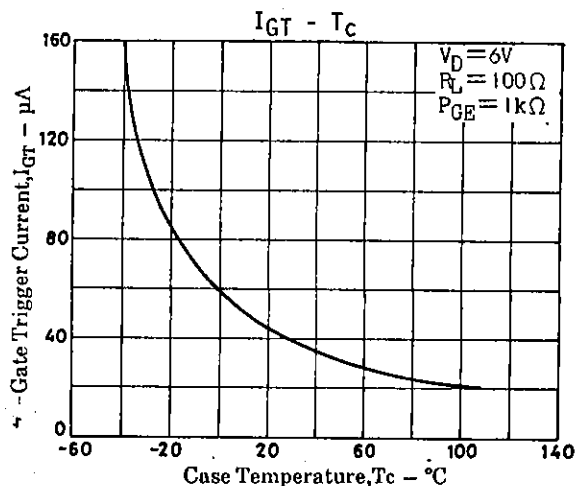
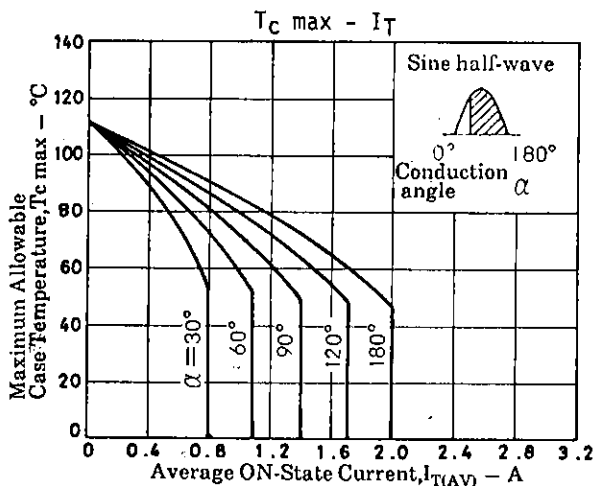
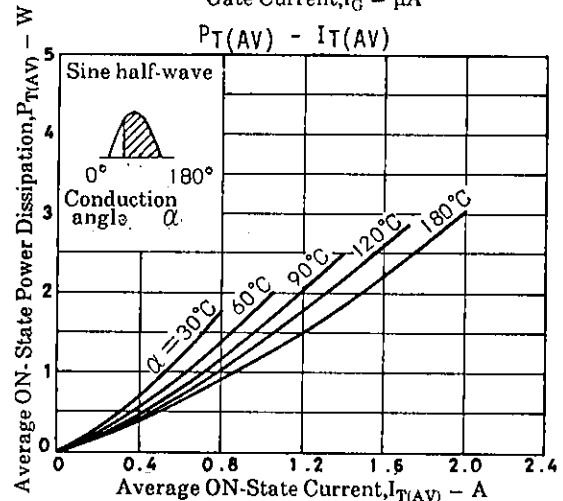
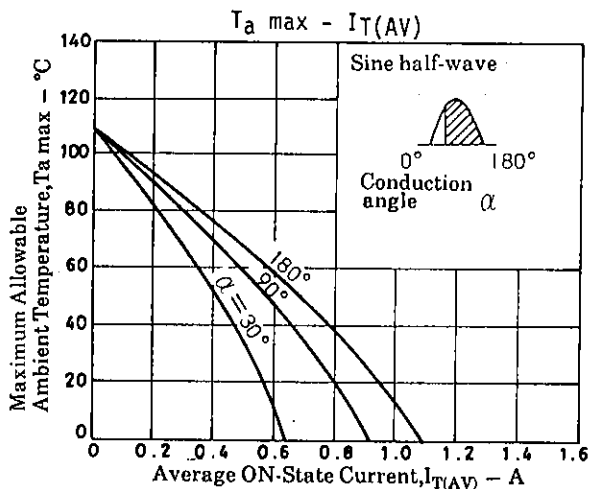
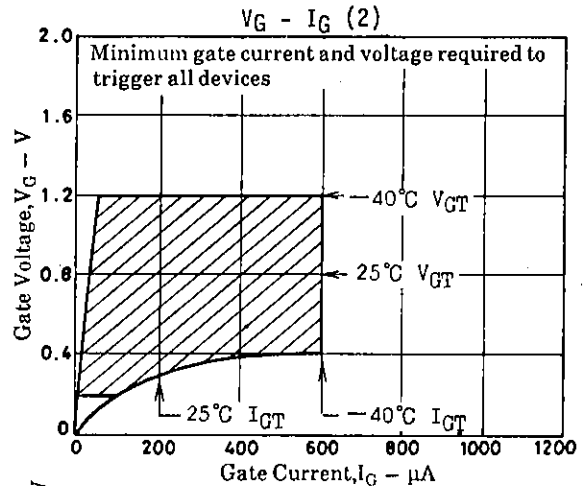
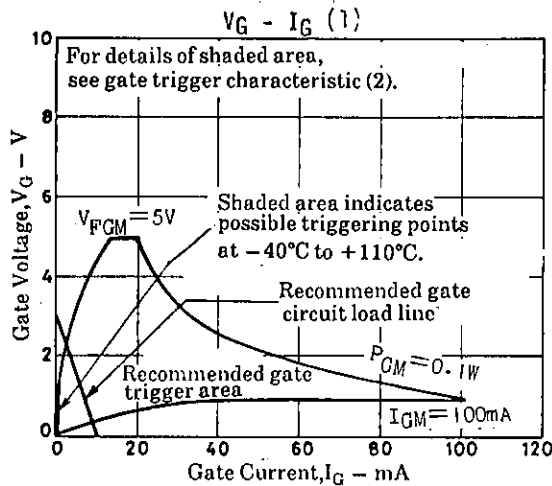
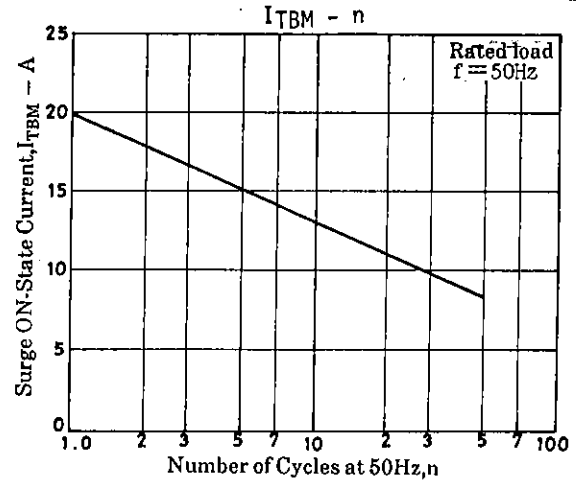
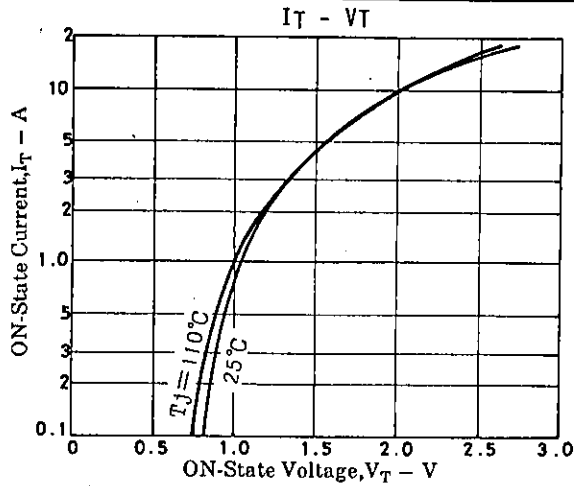
			DRA2TB	DRA2TC	DRA2TE	DRA2TG	unit
Repetitive Peak OFF-State Voltage	V_{DRM}	$R_{GK} = 1k\Omega$	100	200	400	600	V
Non-Repetitive Peak Reverse Voltage	V_{RSM}	$R_{GK} = 1k\Omega$	-150	-300	-500	-720	V
Repetitive Peak Reverse Voltage	V_{RRM}	$R_{GK} = 1k\Omega$	-100	-200	-400	-600	V
Average ON-State Current	$I_{T(AV)}$	$T_c = 45^\circ C$, single-phase half-wave	→	→	→	2	A
Surge ON-State Current	I_{TSM}	Sine half-wave 1 cycle, 50Hz	→	→	→	20	A
Amperes Squared-Seconds	$\int i^2 T \cdot dt$	$1ms \leq t \leq 10ms$	→	→	→	1.6	A ² s
Peak Gate Power Dissipation	P_{GM}	$f \geq 50Hz$, duty $\leq 10\%$	→	→	→	0.1	W
Average Gate Power Dissipation	$P_{G(AV)}$		→	→	→	0.01	W
Peak Gate Forward Current	I_{FGM}	$f \geq 50Hz$, duty $\leq 10\%$	→	→	→	0.1	A
Peak Gate Reverse Voltage	V_{RGM}		→	→	→	-5	V
Junction Temperature	T_j		→	→	→	110	°C
Storage Temperature	T_{stg}		→	→	→	-40 to +110	°C
Weight			→	→	→	1.5	g

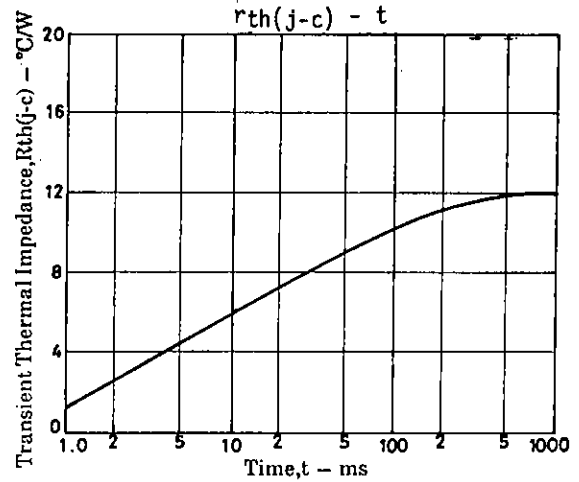
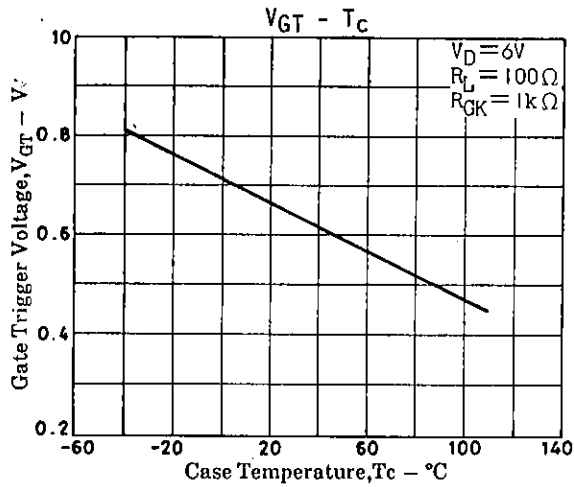
Electrical Characteristics at Ta = 25°C

			min	typ	max	unit
Repetitive Peak OFF-State Current	I_{DRM}	$T_j = 110^\circ C, V_D = V_{DRM}, R_{GK} = 1k\Omega$			0.2	mA
Repetitive Peak Reverse Current	I_{RRM}	$T_j = 110^\circ C, V_R = V_{RRM}, R_{GK} = 1k\Omega$			-0.2	mA
Peak ON-State Voltage	V_{TM}	$I_{TM} = 10A$			2.0	V
Critical Rate of Rise of OFF-State Voltage	dv/dt	$T_j = 110^\circ C, V_D = V_{DRM}, R_{GK} = 1k\Omega$		15 10(G)		V/ μs
Holding Current	I_H	$V_D = 24V, R_{GK} = 1k\Omega$		3.0		mA
Gate Trigger Current	I_{GT}	$V_D = 6V, R_L = 100\Omega, R_{GK} = 1k\Omega$			0.2	mA
Gate Trigger Voltage	V_{GT}	$V_D = 6V, R_L = 100\Omega, R_{GK} = 1k\Omega$			0.8	V
Gate Nontrigger Voltage	V_{GD}	$T_c = 110^\circ C, V_D = \text{Rated voltage}, R_{GK} = 1k\Omega$	0.2			V
Thermal Resistance	$R_{th(j-c)}$				12	°C/W

Package Dimensions 1150
(unit: mm)

DRA2T





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