

SANYO**DRA2T**

Silicon Planar Type

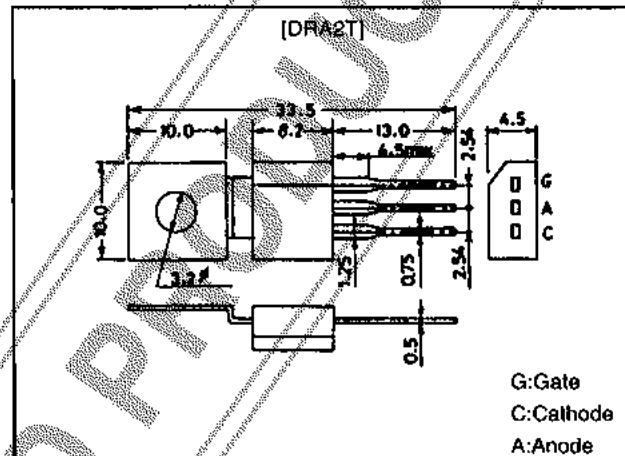
2.0A Reverse Blocking Thyristor**Features**

- TO-202 package facilitating easy mounting.
- Peak OFF-state (reverse) voltage : 100 to 600V.
- Average ON-state current : 2A

Package Dimensions

unit:mm

1150

**Specifications****Absolute Maximum Ratings at Ta = 25°C**

Parameter	Symbol	Conditions	DRA2TB	DRA2TC	DRA2TE	DRA2TG	Unit
Repetitive Peak OFF-State Voltage	V _{DRM}	R _{GK} =1Ω	100	200	400	600	V
Non-Repetitive Peak Reverse Voltage	V _{RSM}	R _{GK} =1Ω	150	300	500	720	V
Repetitive Peak Reverse Voltage	V _{RRM}	R _{GK} =1Ω	100	200	400	600	V
Average ON-State Current	I _{T(AV)}	T _C =45°C, single phase half-wave	→	→	→	2	A
Surge ON-State Current	I _{TSM}	One half-wave 1 cycle, 50Hz	→	→	→	20	A
Amperes Squared-Seconds	I _T · t _d	t _{on} <10ms	→	→	→	1.6	A ² s
Peak Gate Power Dissipation	P _{GM}	f≥50Hz, duty≤10%	→	→	→	0.1	W
Average Gate Power Dissipation	P _{G(AV)}		→	→	→	0.01	W
Peak Gate Forward Current	I _{FGM}	I ₂ 50Hz, duty≤10%	→	→	→	0.1	A
Peak Gate Reverse Voltage	V _{RRG}		→	→	→	5	V
Junction Temperature	T _J		→	→	→	110	°C
Storage Temperature	T _{SIG}		→	→	→	-40 to +110	°C
Weight			→	→	→	1.5	g

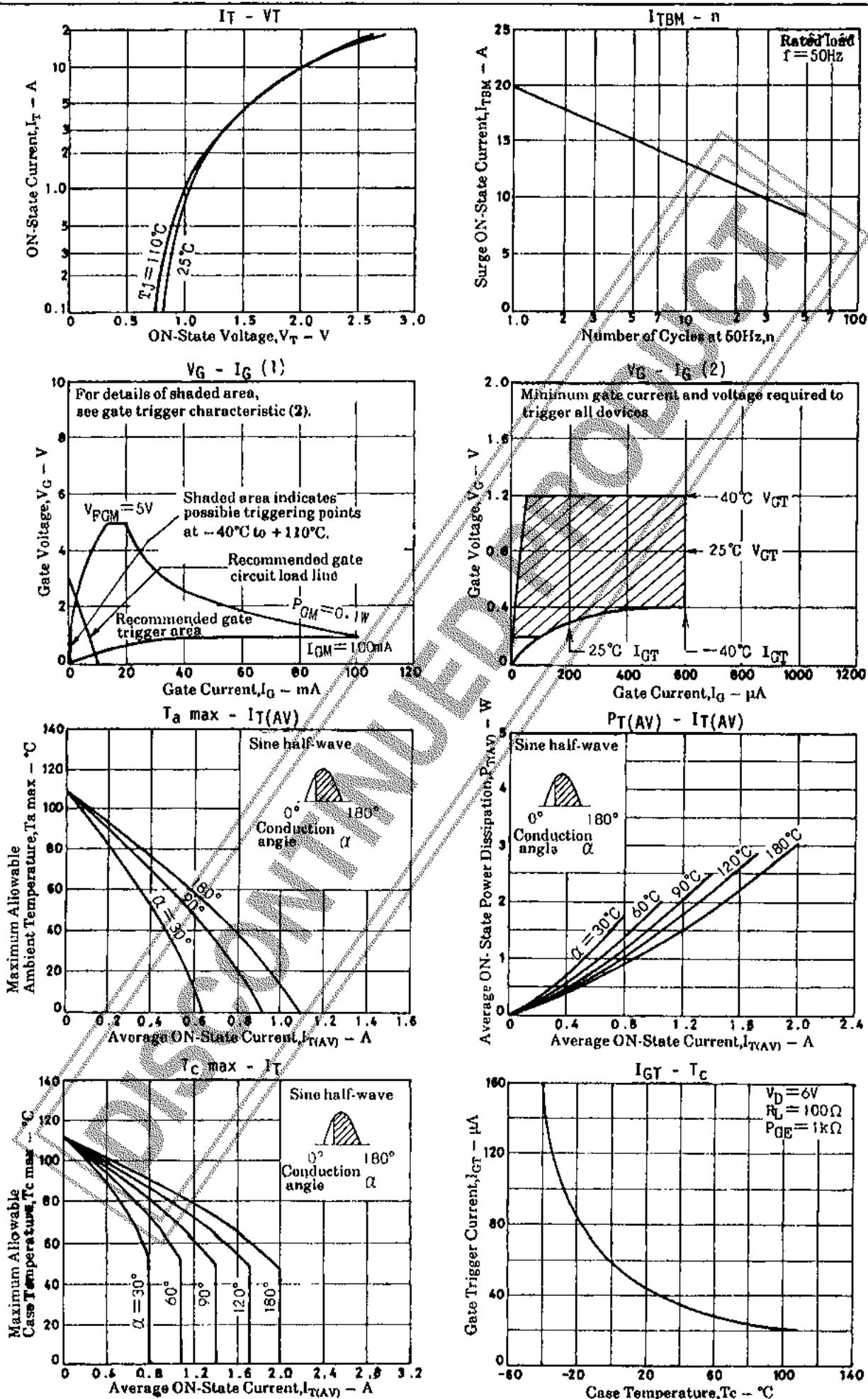
Electrical Characteristics at Ta = 25°C

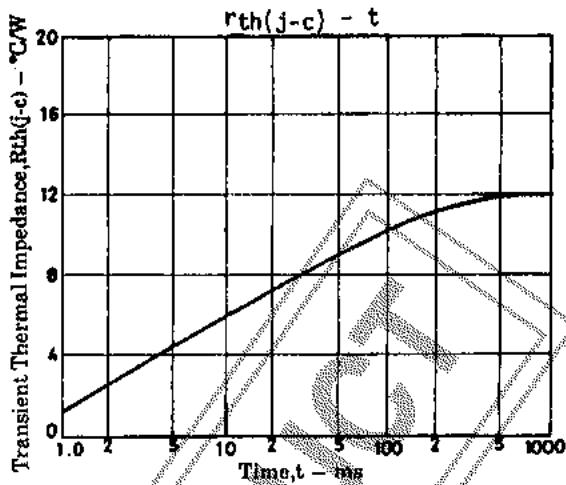
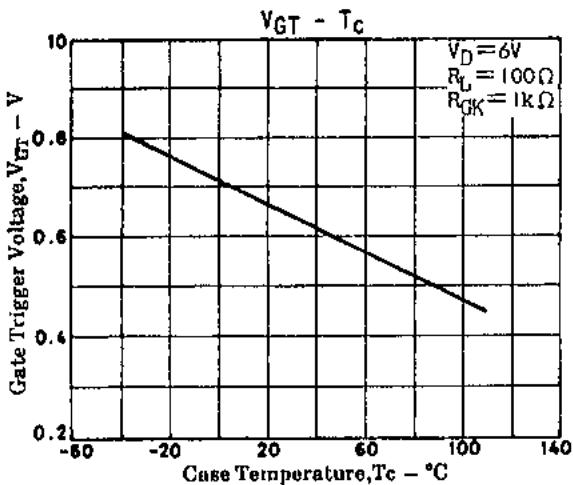
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Repetitive Peak OFF-State Current	I _{DRM}	T _J =110°C, V _D =V _{DRM} , R _{GK} =1kΩ			0.2	mA
Repetitive Peak Reverse Current	I _{RRM}	T _J =110°C, V _R =V _{RRM} , R _{GK} =1kΩ			0.2	mA
Peak ON-State Voltage	V _{TM}	I _{TM} =10A			2.0	V
Critical Rate of Rise of OFF-State Voltage	dv/dt	T _J =110°C, V _D =V _{DRM} , R _{GK} =1kΩ		15		V/μs
					10(G)	
Holding Current	I _H	V _D =24V, R _{GK} =1kΩ		3.0		mA
Gate Trigger Current	I _{GT}	V _D =6V, R _L =100Ω, R _{GK} =1kΩ			0.2	mA
Gate Trigger Voltage	V _{GT}	V _D =6V, R _L =100Ω, R _{GK} =1kΩ			0.8	V
Gate Nontrigger Voltage	V _{GO}	T _C =110°C, V _D =Rated voltage, R _{GK} =1kΩ	0.2			V
Thermal Resistance	R _{th(j-c)}				12	°C/W

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