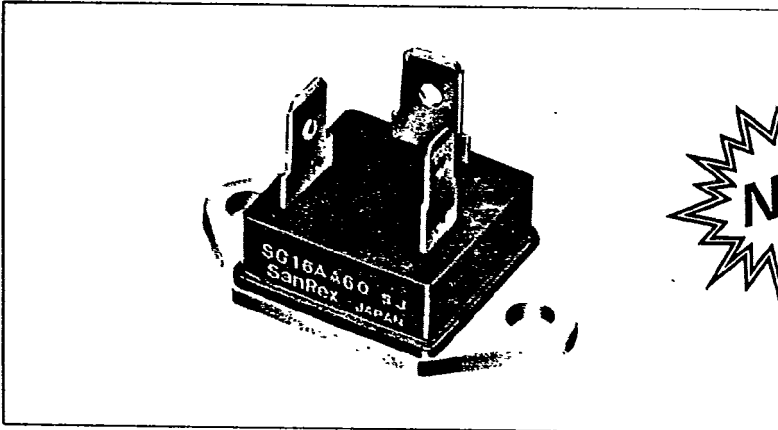


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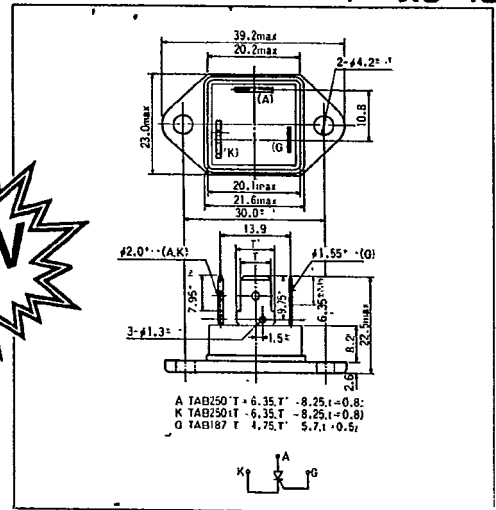
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ISOLATED MOLD TYPE THYRISTOR



NEW



Maximum Ratings

Item	Symbol	Unit	SG16AA20	SG16AA30	SG16AA40	SG16AA50	SG16AA60
Repetitive Peak Reverse Voltage	VRRM	V	200	300	400	500	600
Non-Repetitive Peak Reverse Voltage	VRSM	V	240	360	480	600	720
Repetitive Peak Off-State Voltage	VDRM	V	200	300	400	500	600

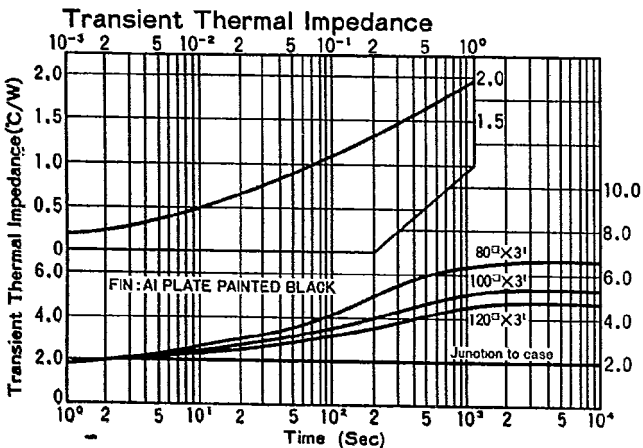
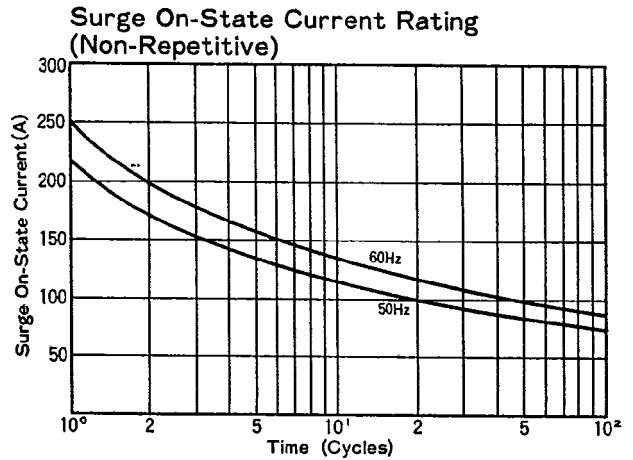
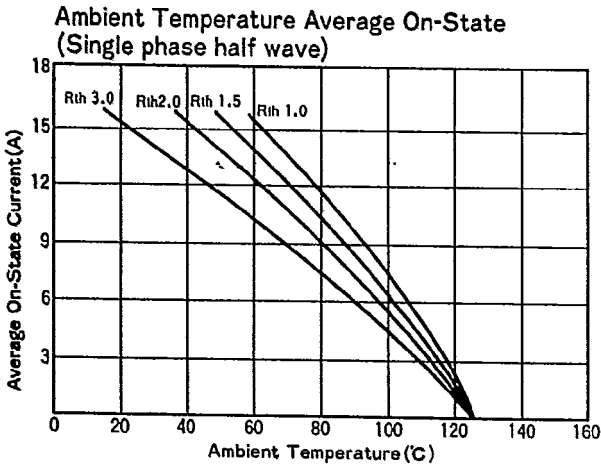
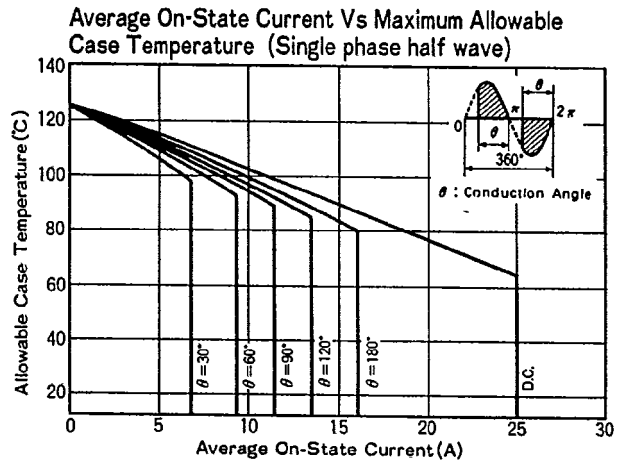
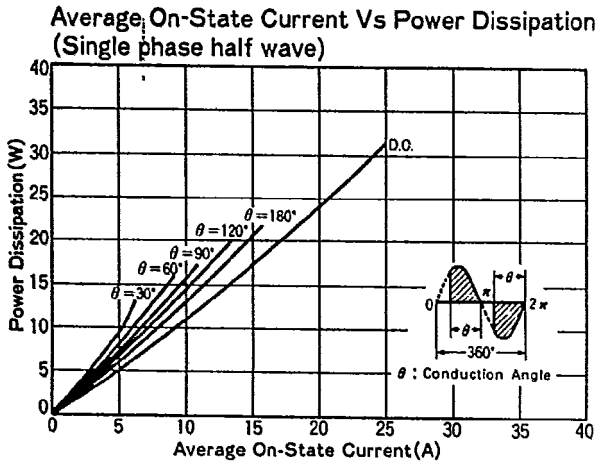
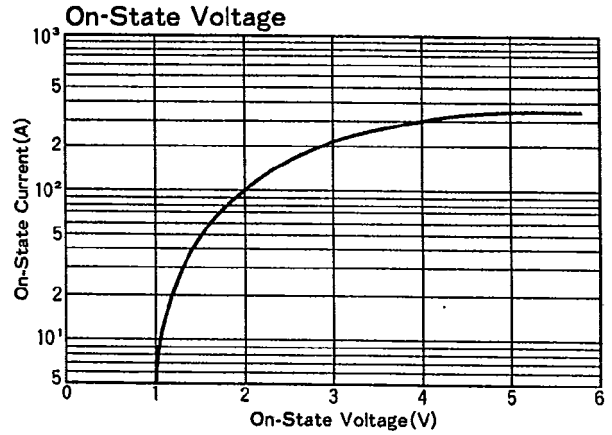
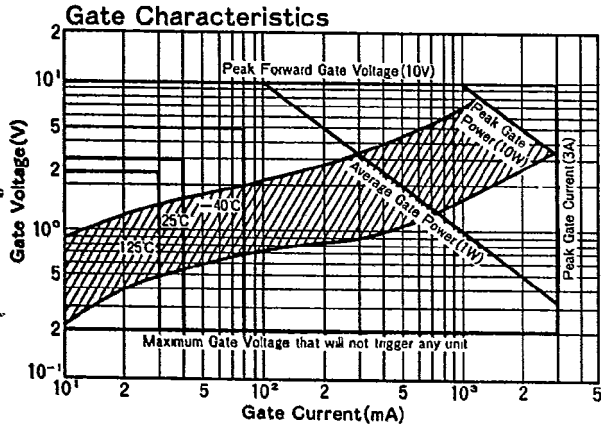
Item	Symbol	Unit	Rating	Reference
Average On-State Current	$I_{T(AV)}$	A	16	Single phase, half wave, 180° conduction, Tc : 80°C
R.M.S. On-State Current	$I_{T(RMS)}$	A	25	Single phase, half wave, 180° conduction, Tc : 80°C
Surge On-State Current	I_{TSM}	A	220/250	1/2 cycle, 50/60Hz, peak value, non-repetitive
I ² t (for fusing)	$I^2 t$	A ² S	260	2~10ms
Peak Gate Power Dissipation	P _{GM}	W	10	
Average Gate Power Dissipation	P _{G(AV)}	W	1	
Peak Gate Current	I _{FGM}	A	3	
Peak Gate Voltage Forward	V _{FGM}	V	10	
Peak Gate Voltage Reverse	V _{RGM}	V	5	
Critical Rate of Rise of On-State Current	di/dt	A/μs	100	I _G =100mA, T _J =25°C, V _D =1/2 V _{DRM} , diG/dt=1A/μs
Isolation Breakdown Voltage (R.M.S.)	V _{ISO}	V	2500	A.C. 1 minute
Operating Junction Temperature	T _J	°C	-40~+125	
Storage Temperature	T _{STG}	°C	-40~+125	
Mounting Torque	Mounting M4	kgf·cm	11~14	Recommended Value 12.5kgf·cm
Mass		g	170	

Electrical Characteristics

Item	Symbol	Unit	Rating	Reference
Repetitive Peak Off-State Current, max.	I _{ORM}	mA	3	at V _{DRM} , Single phase, half wave
Repetitive Peak Reverse Current, max.	I _{RRM}	mA	3	at V _{RRM} , Single phase, half wave
Peak On-State Voltage, max.	V _{TM}	V	1.50	On-State Current 50A, T _J =25°C, Inst. measurement
Gate Trigger Current/Voltage, max.	I _{GT} /V _{GT}	mA/V	40/3	T _J =25°C, I _T =1A, V _D =6V
Non-Trigger Gate Voltage, min.	V _{GD}	V	0.2	T _J =125°C, V _D =1/2 V _{DRM}
Turn On Time, max.	t _{GT}	μs	10	I _T =10A, I _G =100mA, T _J =25°C, V _D =1/2 V _{DRM} , diG/dt=1A/μs
Critical Rate of Rise of Off-State Voltage, min.	dv/dt	V/μs	100	T _J =125°C, V _D =2/3 V _{DRM} , Exponential wave.
Holding Current, max.	I _H	mA	30	T _J =25°C
Thermal Impedance, max.	R _{th}	°C/W	2.0	Junction to case

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Editor *W.D*



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