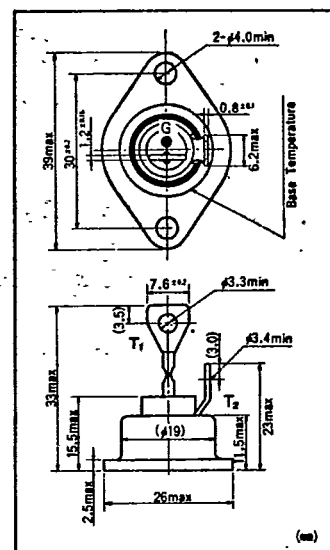
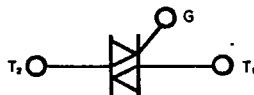


# ISOLATED TYPE TRIAC SSG35C-Y

T704

For general A.C. power control applications such as A.C. switches, light controls, speed controls and heater controls etc.

- General A.C. power use
- $I_{T(RMS)}=35A$
- High voltage up to 600V
- High surge current of 330A
- Package types; diamond



### Maximum Ratings

Item	Symbol	Unit	SSG35C 20Y	SSG35C 30Y	SSG35C 40Y	SSG35C 50Y	SSG35C 60Y
Repetitive Peak Off-State Voltage	$V_{DRM}$	V	200	300	400	500	600

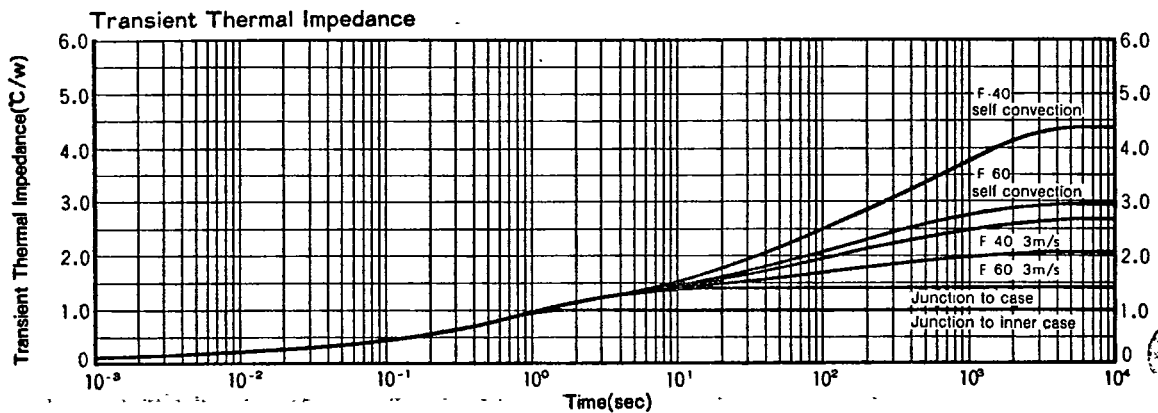
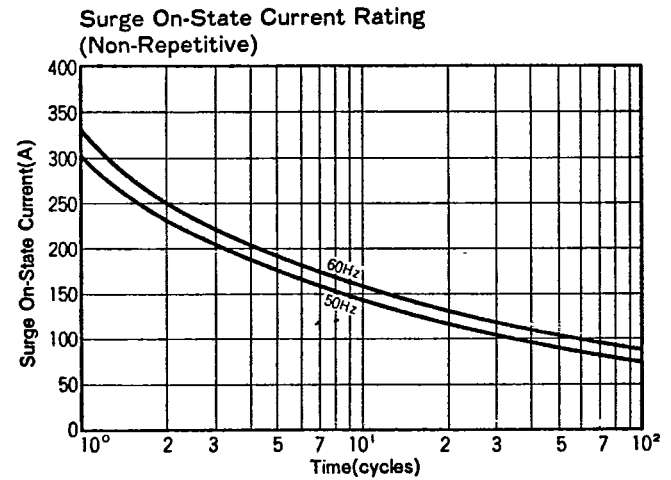
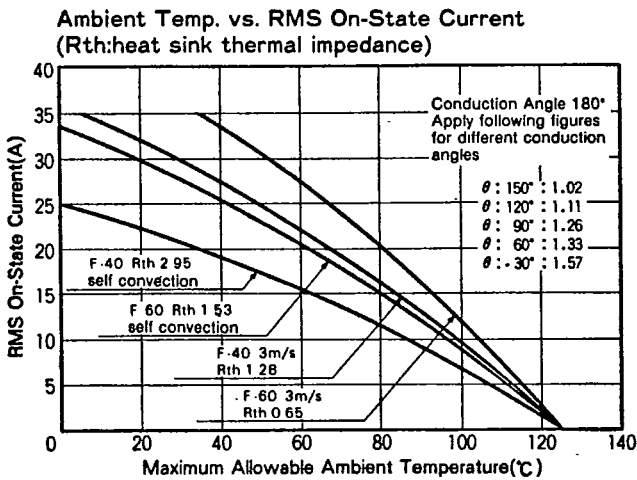
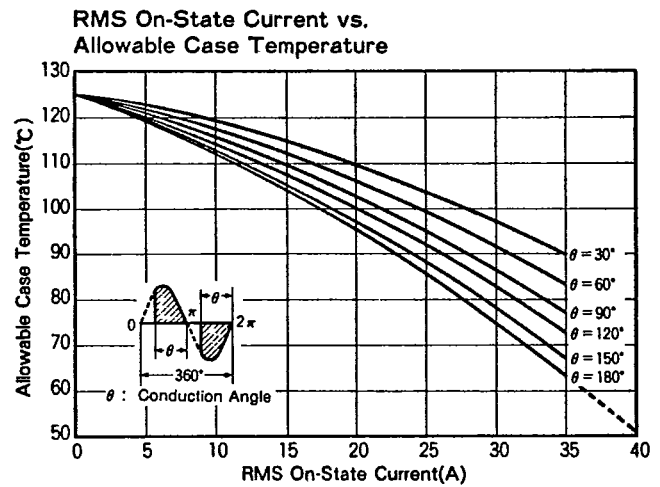
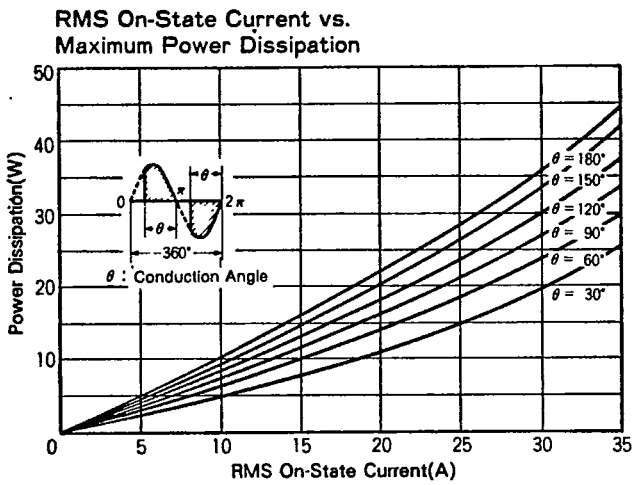
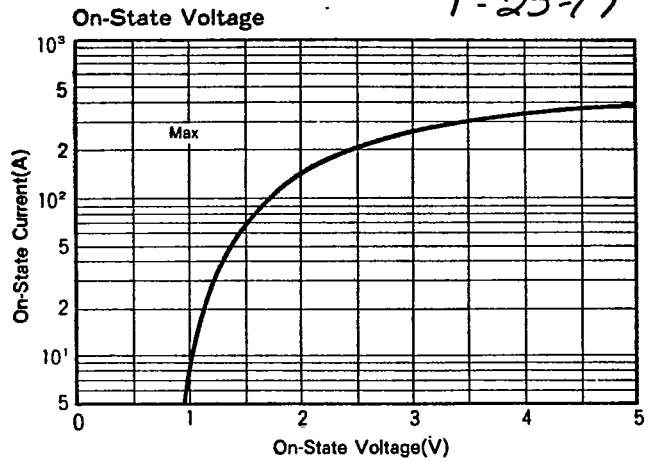
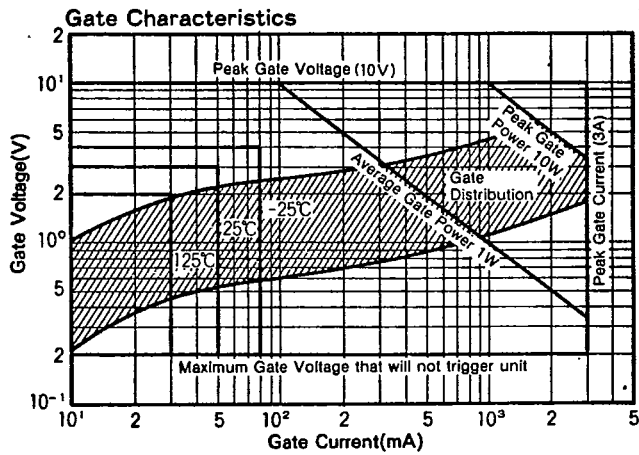
Item	Symbol	Unit	Rating	Reference
RMS On-State Current	$I_{T(RMS)}$	A	35	$T_c=62^\circ C$
Surge On-State Current	$I_{TSM}$	A	300/330	One cycle 50/60Hz, peak, non-repetitive
$I^2t$ (for fusing)	$I^2t$	A <sup>2</sup> S	450	1 cycle
Peak Gate Power Dissipation	$P_{GM}$	W	10	
Average Gate Power Dissipation	$P_{G(AV)}$	W	1	
Peak Gate Current	$I_{GM}$	A	3	
Peak Gate Voltage	$V_{GM}$	V	10	
Critical Rate of Rise of On-State Current	$di/dt$	A/ $\mu s$	50	$I_c=100mA$ $T_j=25^\circ C$ $V_D=\frac{1}{2}V_{DRM}$ $dl_c/dt=1A/\mu s$
Isolation Breakdown Voltage(R.M.S.)	$V_{ISO}$	V	2,500	A.C.1minute
Operating Junction Temperature	$T_j$	$^\circ C$	-25~+125	
Storage Temperature	$T_{stg}$	$^\circ C$	-25~+125	
Mounting Torque		kgf·cm	12	Recommended 10kgf·cm
Mass		g	22	Excluding bolt, nut and wrapping material

### Electrical Characteristics

Item	Symbol	Unit	Rating	Reference
Repetitive Peak Off-State Current, max.	$I_{DRM}$	mA	5	at $V_{DRM}$ . Single phase, half wave
Peak On-State Voltage, max.	$V_{TM}$	V	1.4	$I_T=50A$ $T_j=25^\circ C$ Inst. measurement
Gate Trigger Current, max.	1 $I_{GT1}$	mA	50	$T_j=25^\circ C$ $I_T=1A$ $V_D=6V$
	2 $I_{GT1}$	mA	50	$T_j=25^\circ C$ $I_T=1A$ $V_D=6V$
	3 $I_{GT3}$	mA	—	
	4 $I_{GT3}$	mA	50	$T_j=25^\circ C$ $I_T=1A$ $V_D=6V$
Gate Trigger Voltage, max.	1 $V_{GT1}$	V	3	$T_j=25^\circ C$ $I_T=1A$ $V_D=6V$
	2 $V_{GT1}$	V	3	$T_j=25^\circ C$ $I_T=1A$ $V_D=6V$
	3 $V_{GT3}$	V	—	
	4 $V_{GT3}$	V	3	$T_j=25^\circ C$ $I_T=1A$ $V_D=6V$
Non-Trigger Gate Voltage, min.	$V_{GD}$	V	0.2	$T_j=125^\circ C$ $V_D=\frac{1}{2}V_{DRM}$
Turn On Time, max.	$t_{gt}$	$\mu s$	10	$I_T=35A$ $I_c=100mA$ $V_D=\frac{1}{2}V_{DRM}$ $T_j=25^\circ C$ $dl_c/dt=1A/\mu s$
Critical Rate of Rise of Off-State Voltage, min.	$dv/dt$	V/ $\mu s$	20	$T_j=125^\circ C$ , $V_D=\frac{3}{5}V_{DRM}$ Exponential wave.
Critical Rate of Rise of Off-State Voltage at Commutation, min.	$(dv/dt)_c$	V/ $\mu s$	5	$T_j=125^\circ C$ , $(di/dt)_c=15A/ms$ , $V_D=\frac{3}{5}V_{DRM}$
Holding Current, typ.	$I_H$	mA	30	$T_j=25^\circ C$
Thermal Impedance, max.	$R_{th}$	$^\circ C/W$	1.4	Junction to case

4243 B-10

T-25-17





# SanRex®

# DIMENSIONS

## DIMENSIONS

(m/m)

