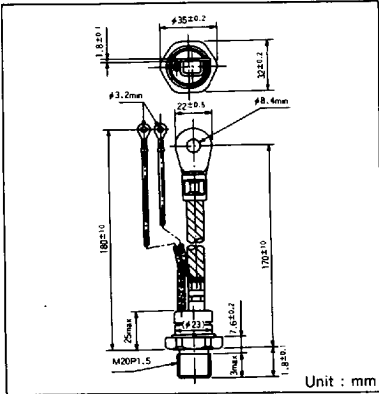


TRIAC
SSG150C

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
IT(RMS) = 150A
High voltage up to 1200V
High surge current of 2200A
Package types;stud



Maximum Ratings

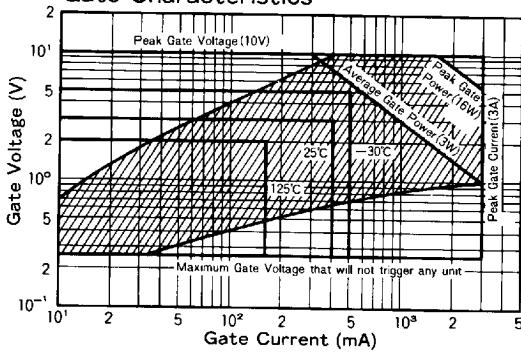
Symbol	Item	SSG150C40	SSG150C60	SSG150C80	SSG150C100	SSG150C120	Unit
VDRM	Repetitive Peak Off-State Voltage	400	600	800	1000	1200	V

Symbol	Item	Conditions	Ratings	Unit
IT(RMS)	R.M.S On-State Current	Tc=84°C	150	A
ITSM	Surge On-State Current	One cycle, 50/60Hz, peak, non-repetitive	1980/2200	A
I2t	I2t	Value for one cycle of surge current	20000	A²S
PGM	Peak Gate Power Dissipation		16	W
PG(AV)	Average Gate Power Dissipation		3	W
IGM	Peak Gate Current		3	A
VGM	Peak Gate Voltage		10	V
di/dt	Critical Rate of Rise of On-State Current	Ig=400mA, Tj=25°C, Vd= 1/2 VDRM, diG/dt=1A/μs	50	A/μs
Tj	Operating Junction Temperature		-30~+125	°C
Tstg	Storage Temperature		-30~+125	°C
	Mounting Torque	Recommended Value 160kgf·cm	200	kgf·cm
	Mass	Excluding nut, washer and wrapping material	194	g

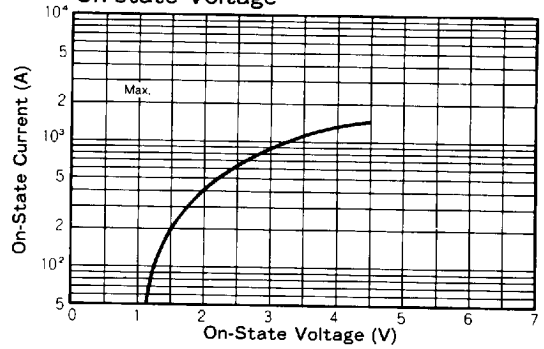
Electrical Characteristics

Symbol	Item	Conditions	Ratings	Unit
IDRM	Repetitive Peak Off-State Current, max.	at VDRM, single phase, half wave, Tj=125°C	15	mA
VTM	Peak On-State Voltage, max.	IT=210A Tj=25°C Inst. measurement	1.5	V
IGT1+	Gate Trigger Current, max.	Tj=25°C, IT=1A, Vd=6V	400	mA
IGT1-		Tj=25°C, IT=1A, Vd=6V	400	
IGT3+			—	
IGT3-		Tj=25°C, IT=1A, Vd=6V	400	
VGT1+	Gate Trigger Voltage, max.	Tj=25°C, IT=1A, Vd=6V	3	V
VGT1-		Tj=25°C, IT=1A, Vd=6V	3	
VGT3+			—	
VGT3-		Tj=25°C, IT=1A, Vd=6V	3	
VGD	Non-Trigger Gate Voltage, min.	Tj=125°C, Vd= 1/2 VDRM	0.25	V
tgt	Turn On Time, max	IT=150A, Ig=400mA, Vd= 1/2 VDRM, Tj=25°C diG/dt=1A/μs	10	μs
dv/dt	Critical Rate of Rise of On-State Voltage, min.	Tj=125°C, Vd= 2/3 VDRM, Exponential wave.	50	V/μs
(dv/dt) c	Critical Rate of Rise off-State Voltage at commutation, min	Tj=125°C, (di/dt) c=1A/ms, Vd= 2/3 VDRM	50	V/μs
Ih	Holding Current, typ.	Tj=25°C	100	mA
Rth(j-c)	Thermal Impedance, max.	Junction to case	0.2	°C/W

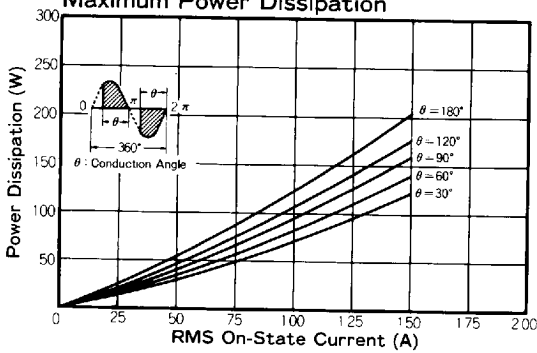
Gate Characteristics



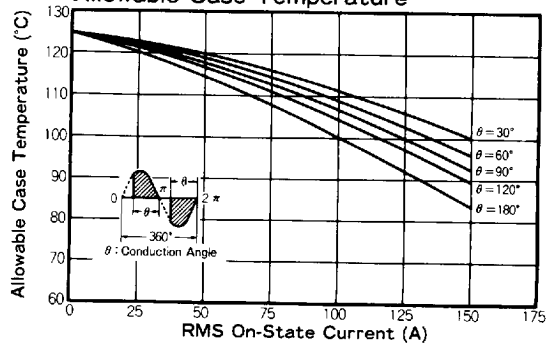
On-state Voltage



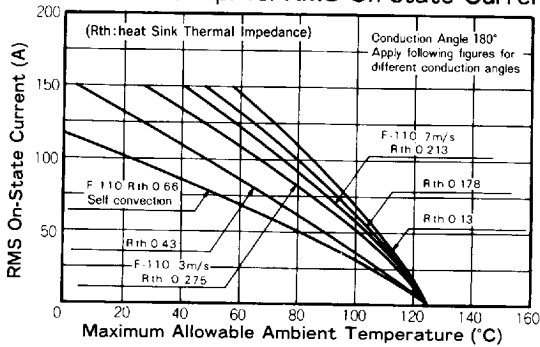
On state Current vs. Maximum Power Dissipation



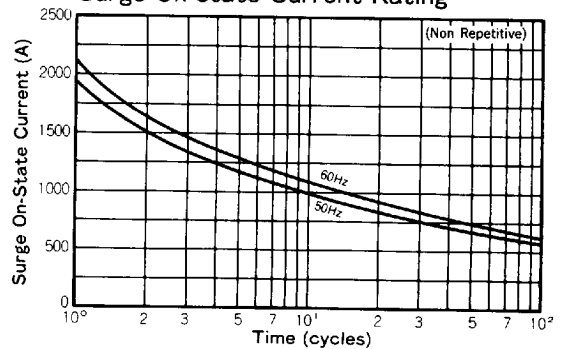
On state Current vs. Allowable Case Temperature



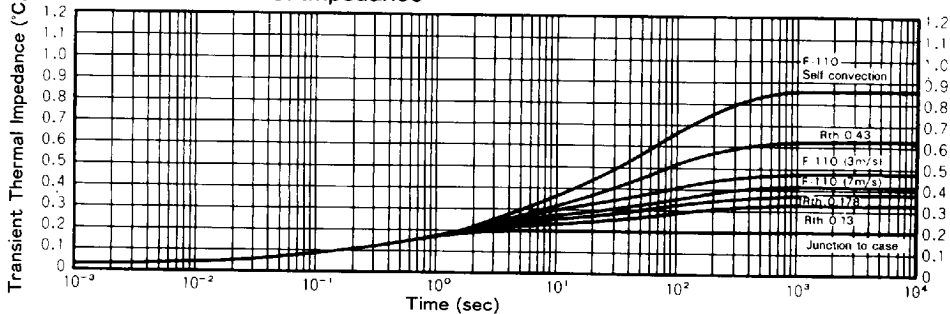
Ambient temp. vs. RMS On state Current



Surge On state Current Rating



Transient Thermal Impedance



7991243 0002448 279

SANSHA ELECTRIC