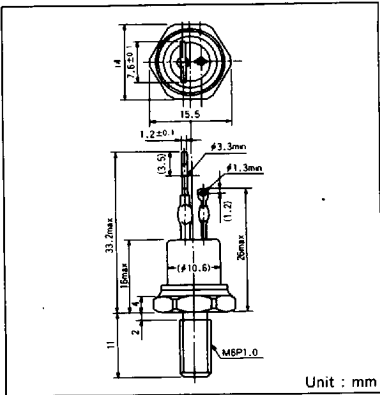


TRIAC
SSG25C

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) = 25A
- High voltage up to 1200V
- High surge current of 250A
- Package types;stud



Maximum Ratings

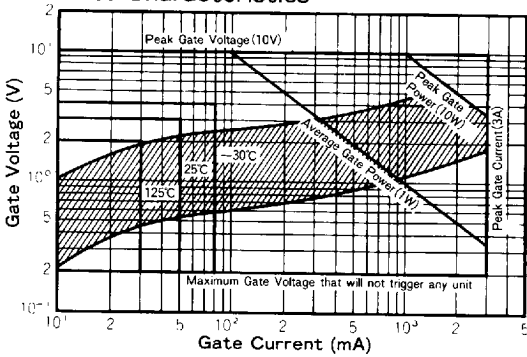
Symbol	Item	SSG25C40	SSG25C60	SSG25C80	SSG25C100	SSG25C120	Unit
VDRM	Repetitive Peak off-State Voltage	400	600	800	1000	1200	V

Symbol	Item	Conditions	Ratings	Unit
IT(RMS)	R.M.S On-State Current	Tc=88°C	25	A
ITSM	Surge On-State Current	One cycle, 50/60Hz, peak, non-repetitive	220/250	A
I²t	I²t	Value for one cycle of surge current	260	A²S
PGM	Peak Gate Power Dissipation		10	W
PG(AV)	Average Gate Power Dissipation		1	W
IGM	Peak Gate Current		3	A
VGM	Peak Gate Voltage		10	V
di/dt	Critical Rate of Rise of On-State Current	IG=100mA, 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 12kgf·cm	15	kgf·cm
	Mass	Excluding nut. washer. 26g. and wrapping material 3g	13.6	g

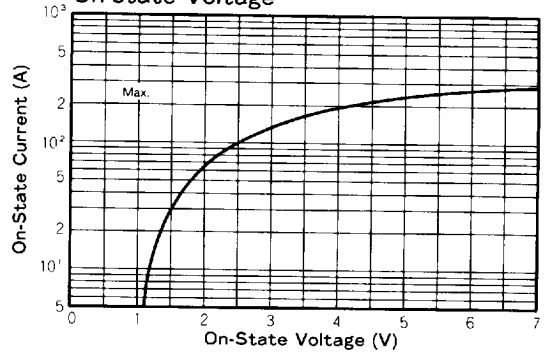
Electrical Characteristics

Symbol	Item	Conditions	Ratings	Unit
IDRM	Repetitive Peak Off-State Current, max.	at VDRM, single phase, half wave, Tj=125°C	3	mA
VTM	Peak On-State Voltage, max.	IT=35A Tj=25°C Inst. measurement	1.6	V
IGT1+	Gate Trigger Current, max.	Tj=25°C, IT=1A, VD=6V	70	mA
IGT1-		Tj=25°C, IT=1A, VD=6V	70	
IGT3+			—	
IGT3-		Tj=25°C, IT=1A, VD=6V	70	
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	0.2	V
tgt	Turn On Time, max	IT=25A, IG=100mA, 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.	100	V/µs
(dv/dt)c	Critical Rate of Rise off-State Voltage at commutation, min	Tj=125°C, [(di/dt) c=15A/ms, VD= 2/3 VDRM	20	V/µs
IH	Holding Current, typ.	Tj=25°C	30	mA
Rth(j-c)	Thermal Impedance, max.	Junction to case	1.0	°C/W

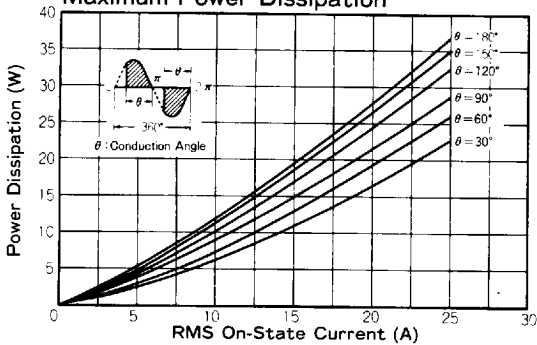
Gate Characteristics



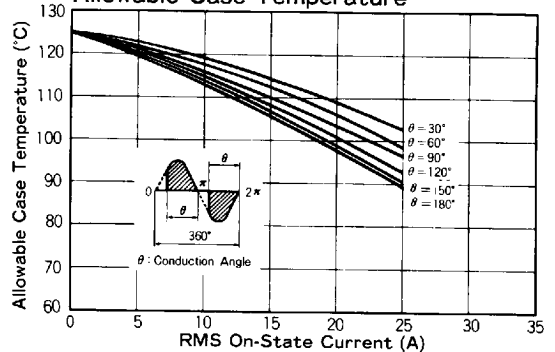
On-state Voltage



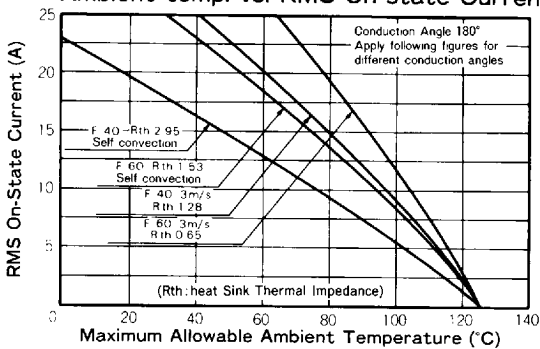
On state Current vs. Maximum Power Dissipation



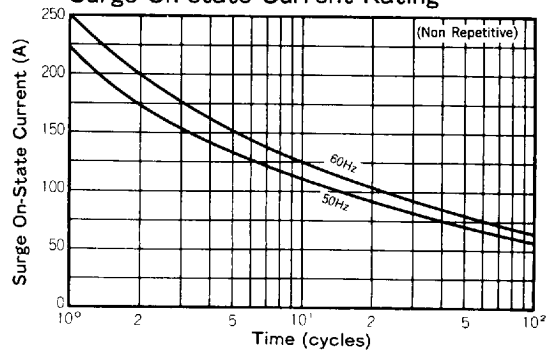
On state Current vs. Allowable Case Temperature



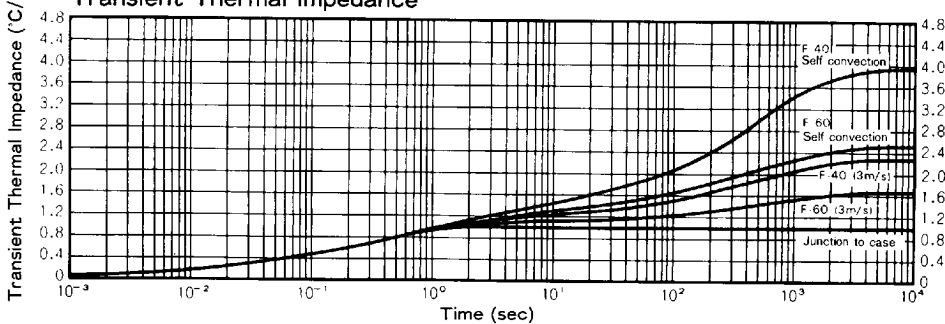
Ambient temp. vs. RMS On state Current



Surge On state Current Rating



Transient Thermal Impedance



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