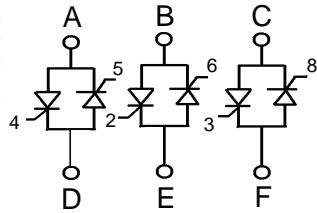
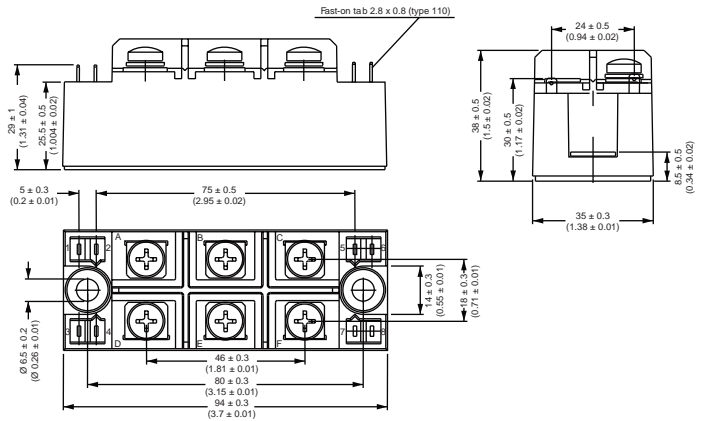


S3SSAC70G16B

Three Phase Solid State AC Switch Modules



Dimensions in mm (1mm=0.0394")



Type	V _{RSM} V	V _{RSM} V
S3SSAC70G08B	900	800
S3SSAC70G12B	1300	1200
S3SSAC70G16B	1700	1600
S3SSAC70G18B	1900	1800

Symbol	Test Conditions	Maximum Ratings	Unit	
I _{TRMS} I _{TAVM}	T _{VJ} =T _{VJM} T _C =85°C; 180° sine	110 70	A	
I _{TSM}	T _{VJ} =45°C V _R =0 t=10ms (50Hz), sine t=8.3ms (60Hz), sine	1280 1350	A	
	T _{VJ} =T _{VJM} V _R =0 t=10ms(50Hz), sine t=8.3ms(60Hz), sine	1150 1230		
I ² t	T _{VJ} =45°C V _R =0 t=10ms (50Hz), sine t=8.3ms (60Hz), sine	7500 8100	A ² s	
	T _{VJ} =T _{VJM} V _R =0 t=10ms(50Hz), sine t=8.3ms(60Hz), sine	5600 5250		
(di/dt) _{cr}	T _{VJ} =125°C f=50Hz, t _p =200us V _D =2/3V _{DRM} I _G =0.3A dig/dt=0.3A/us	repetitive, I _T =250A non repetitive, I _T =I _{TAVM}	150 500	A/us
	(dv/dt) _{cr}	T _{VJ} =T _{VJM} ; R _{GK} =∞; method 1 (linear voltage rise)	V _{DR} =2/3V _{DRM}	1000
P _{GM}	T _{VJ} =T _{VJM} I _T =I _{TAVM}	t _p =30us t _p =300us t _p = 10ms	10 5 0.5	W
T _{VJ} T _{VJM} T _{stg}			-40...+125 125 -40...+125	°C
V _{ISOL}	50/60Hz, RMS I _{ISOL} ≤1mA	t=1min t=1s	2500 3000	V~
M _d	Mounting torque (M5) (10-32 UNF)		5 ± 15 % 44 ± 15 %	Nm/lb.in.
Weight			250	g



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Symbol	Test Conditions	Characteristic Values	Unit
$I_{b,Ir}$	$T_{VJ}=T_{VJM}; V_R=V_{RRM}; V_D=V_{DRM}$	5	mA
V_T, V_F	$I_T, I_F=210A; T_{VJ}=25^{\circ}C$	1.65	V
V_{To}	For power-loss calculations only	0.85	V
r_T		3.2	m Ω
V_{GT}	$V_D=6V;$ $T_{VJ}=25^{\circ}C$ $T_{VJ}=-40^{\circ}C$	1.5 1.6	V
I_{GT}	$V_D=6V;$ $T_{VJ}=25^{\circ}C$ $T_{VJ}=-40^{\circ}C$	100 200	mA
V_{GD}	$T_{VJ}=T_{VJM};$ $V_D=2/3V_{DRM}$	0.2	V
I_{GD}		5	mA
I_L	$T_{VJ}=25^{\circ}C; t_p=10\mu s$ $I_G=0.45A; di_G/dt=0.45A/\mu s$	450	mA
I_H	$T_{VJ}=25^{\circ}C; V_D=6V; R_{GK}=\infty$	200	mA
t_{gd}	$T_{VJ}=25^{\circ}C; V_D=1/2V_{DRM}$ $I_G=0.45A; di_G/dt=0.45A/\mu s$	2	μs
t_q	$T_{VJ}=T_{VJM}; I_T=20A; t_p=200\mu s; -di/dt=10A/\mu s$ $V_R=100V; dv/dt=15V/\mu s; V_D=2/3V_{DRM}$	185	μs
I_{RM}		45	A
R_{thJC}	per thyristor/diode; DC current per module	0.42 0.07	K/W
R_{thJK}	per thyristor/diode; DC current per module	0.62 0.11	K/W
d_s	Creeping distance on surface	12.5	mm
d_A	Strike distance through air	7.5	mm
a	Maximum allowable acceleration	50	m/s ²

FEATURES

1. Thyristor controller for AC for mains frequency
2. Isolation voltage 3000 VAC
3. Package with metal base plate

APPLICATIONS

- !" Switching and control of three #phase AC circuits
- \$" Light and temperature control
- %" Softstart AC motor controller
- 4. Solid state switches

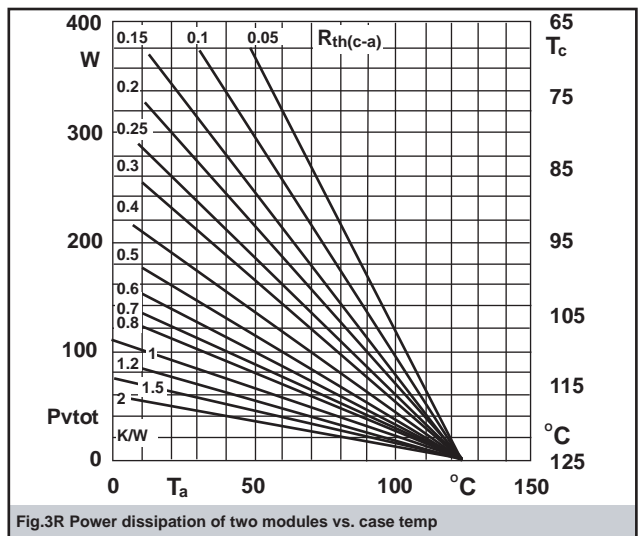
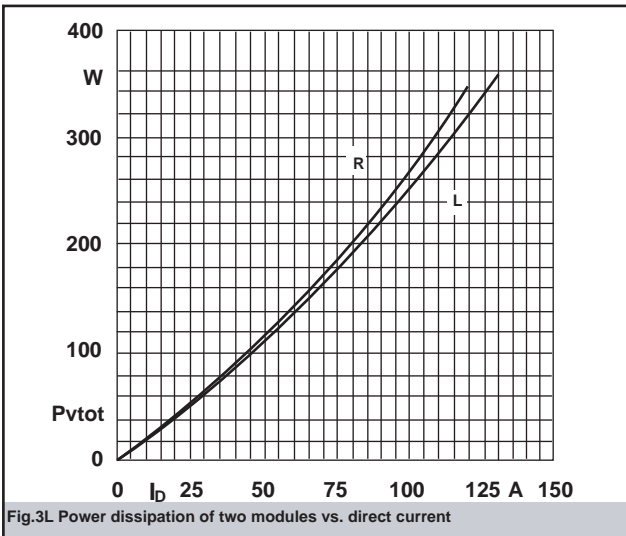
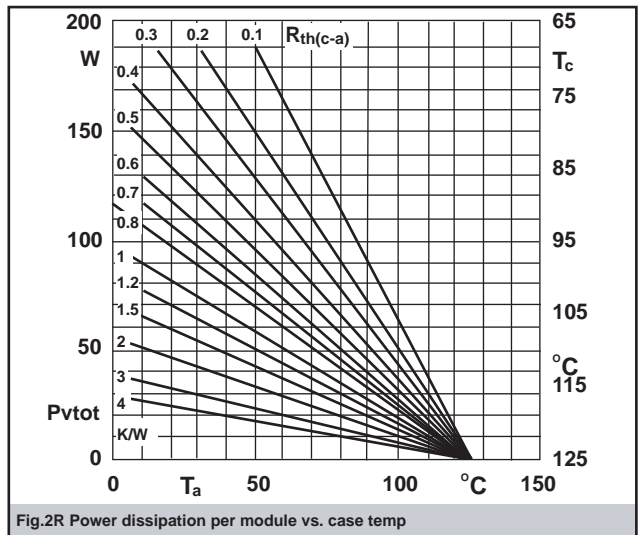
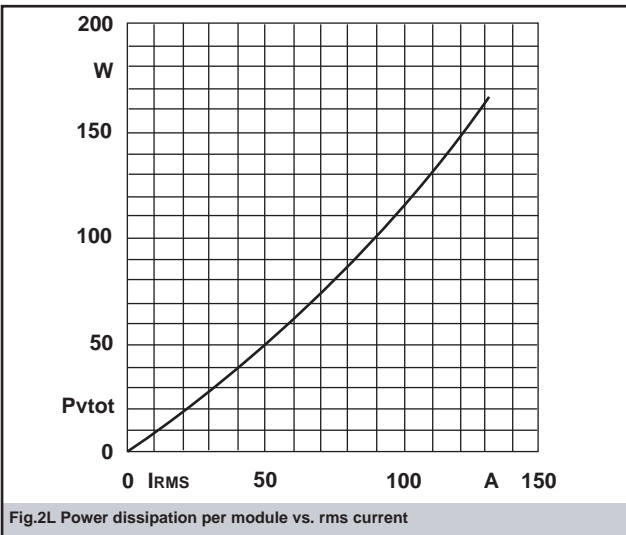
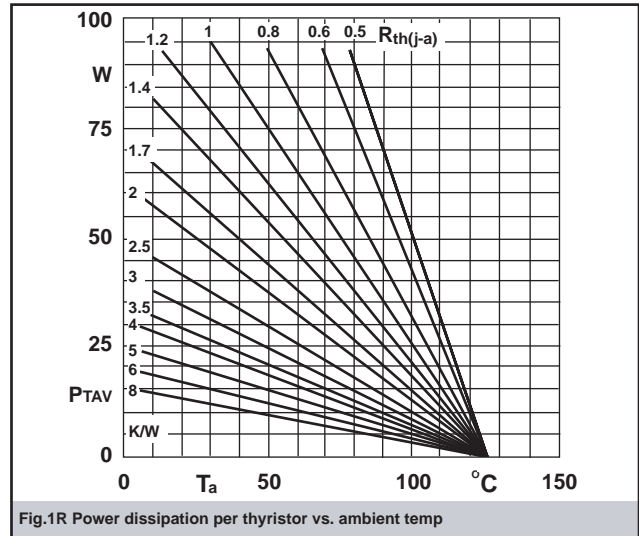
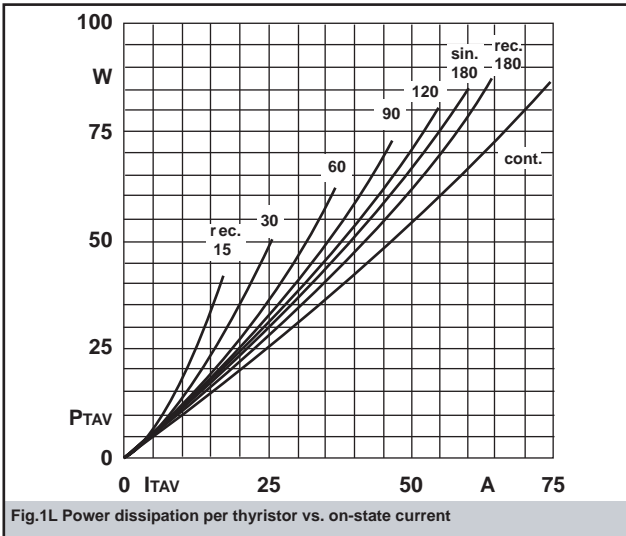
ADVANTAGES

1. Easy to mount with two screws
2. Space and weight savings
3. Improved temperature and power #cycling capability
4. High power density



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