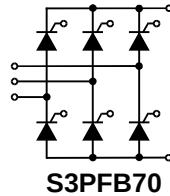
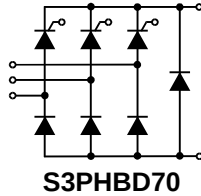
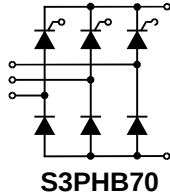
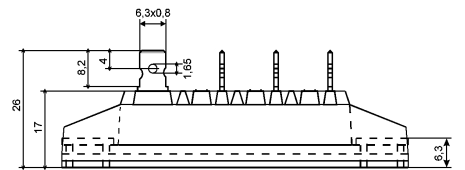
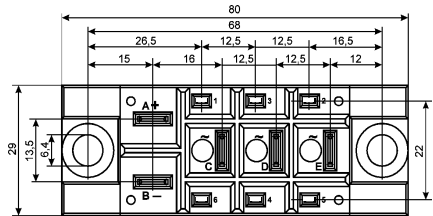


S3PHB70, S3PHBD70, S3PFB70

Three Phase Half Controlled Bridge Modules/Full Controlled Bridge



Dimensions in mm (1mm=0.0394")



Type	V_{RSM} V	V_{RRM} V
S3PHB70G08 S3PHBD70G08 S3PFB70G08	900	800
S3PHB70G12 S3PHBD70G12 S3PFB70G12	1300	1200
S3PHB70G14 S3PHBD70G14 S3PFB70G14	1500	1400
S3PHB70G16 S3PHBD70G16 S3PFB70G16	1700	1600

Symbol	Test Conditions	Maximum Ratings	Unit
I_{dAV} I_{dAVM} I_{FRMS}, I_{TRMS}	$T_C=85^{\circ}C$, module module per leg	70 70 36	A
I_{FSM}, I_{TSM}	$T_{VJ}=45^{\circ}C$ $V_R=0$ $t=10ms$ (50Hz), sine $t=8.3ms$ (60Hz), sine	550 600	A
	$T_{VJ}=T_{VJM}$ $V_R=0$ $t=10ms$ (50Hz), sine $t=8.3ms$ (60Hz), sine	500 550	
I^2t	$T_{VJ}=45^{\circ}C$ $V_R=0$ $t=10ms$ (50Hz), sine $t=8.3ms$ (60Hz), sine	1520 1520	A^2s
	$T_{VJ}=T_{VJM}$ $V_R=0$ $t=10ms$ (50Hz), sine $t=8.3ms$ (60Hz), sine	1250 1250	
$(di/dt)_{cr}$	$T_{VJ}=125^{\circ}C$ $f=50Hz$, $t_p=200\mu s$ $V_D=2/3V_{DRM}$ $I_G=0.3A$ $di_G/dt=0.3A/\mu s$	repetitive, $I_T=50A$ 150	A/ μs
	non repetitive, $I_T=1/2 \cdot I_{dAV}$	500	
$(dv/dt)_{cr}$	$T_{VJ}=T_{VJM}$; $R_{GK}=\infty$; method 1 (linear voltage rise) $V_{DR}=2/3V_{DRM}$	1000	V/ μs
P_{GM}	$T_{VJ}=T_{VJM}$ $I_T=I_{TAVM}$ $t_p=30\mu s$ $t_p=500\mu s$ $t_p=10ms$	10 5 1	W
T_{VJ} T_{VJM} T_{stg}		-40...+125 125 -40...+125	$^{\circ}C$
V_{ISOL}	50/60Hz, RMS $I_{ISOL} \leq 1mA$ $t=1min$ $t=1s$	2500 3000	V~
M_d	Mounting torque (M5) (10-32 UNF)	5 $\pm$ 15 % 44 $\pm$ 15 %	Nm/lb.in.
Weight		50	g

