



Power module 4MBI340VF-120R-50

URL: <https://www.sxplc.com/power-module-4mbi340vf-120r-50>

Product data sheet

Item		Symbol	Condition		Maximum Rating	Unit	
Inverter	Collector-Emitter voltage	V_{CES}			1200	V	
	Gate-Emitter voltage	V_{GES}			±20	V	
	Collector current	IGBT	I_C	Continuous	$T_c=80^{\circ}\text{C}$	340	A
			I_C pulse	1ms	$T_c=80^{\circ}\text{C}$	600	
		FWD	$-I_C$			340	
			$-I_C$ pulse			600	
	Collector power dissipation	P_C	1 device		1500	W	
Junction temperature	T_{vj}			175	°C		
Operating temperature (under switching conditions)	T_{vjop}			150			
Case temperature	T_c			125			
AC Switch	Collector-Emitter voltage	V_{CES}			±600	V	
	Gate-Emitter voltage	V_{GES}			±20	V	
	Collector current	I_C	Continuous	$T_c=80^{\circ}\text{C}$	340	A	
		I_C pulse	1ms	$T_c=80^{\circ}\text{C}$	600		
	Collector power dissipation	P_C	1 device		1500	W	
	Junction temperature	T_{vj}			150	°C	
Operating temperature (under switching conditions)	T_{vjop}			125			
Storage temperature	T_{slq}			-40~+125			
Isolation voltage	between terminal and copper base (*1)	V_{iso}	AC : 1min.		2500	VAC	
Screw torque	Mounting (*2)	-	M5 or M6		3.5	Nm	
	Terminal (*3)	-	M5		3.5		

(*1) All terminals should be connected together during the test.

(*2) Recommendable value : 2.5-3.5 Nm (M5 or M6)

(*3) Recommendable value : 2.5-3.5 Nm (M5)

