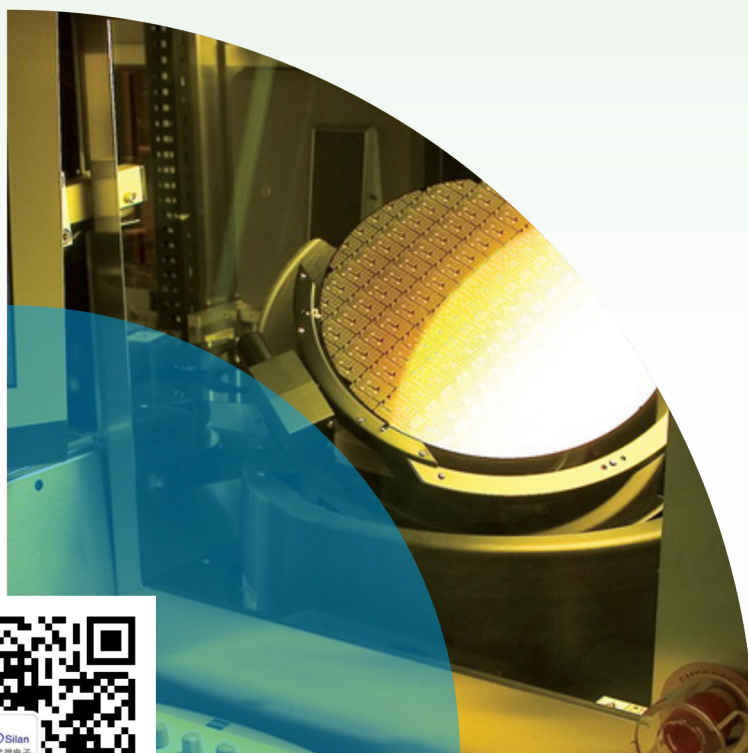


Silan IGBT Module

- ▶ High power density
- ▶ Low loss, high efficiency
- ▶ Advanced IGBT & FRD chip technology



士兰IGBT模块

Silan IGBT Module

产品目录

Product Catalog



国内最具规模的功率模块供应商

The largest Power Module supplier.

为您提供一站式采购和全方位服务

One-stop purchase and all-around service provided.

士兰微电子成立于1997年9月，总部在中国杭州。2003年3月，公司股票在上海证券交易所挂牌交易（上交所：600460），成为第一家在中国境内上市的集成电路芯片设计企业。

士兰微电子专注于半导体集成电路设计与芯片制造产业，坚持研发制造一体化的IDM模式：公司自建5吋、6吋、8吋、12吋（建设中）晶圆生产线，以及IGBT模块、IPM模块、分立器件封装工厂；拥有多种芯片技术平台产品的“规划、设计、评价、制造、验证、品控”完整体系，产品覆盖半导体功率器件和模块、电源芯片、MCU控制芯片、MEMS传感器、LED等；现有集成电路芯片设计研发人员350余人，芯片工艺、封装技术、测试技术研发队伍等超过1500人，员工5000余人。

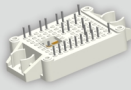
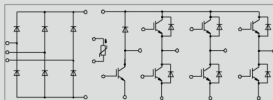
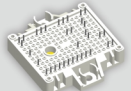
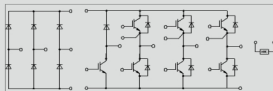
2010年推出 IPM（智能功率模块）系列产品，数年来持续专注于变频家电、工业领域，为变频行业提供成套半导体芯片产品解决方案和系统支持服务；2014年推出PIM（大功率IGBT模块）系列产品和系统支持服务。

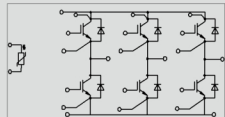
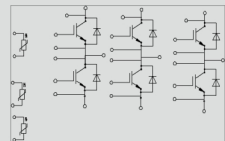
Power Module Nomenclature

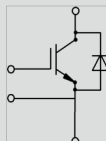


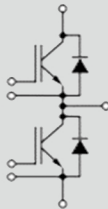
公司主要销售及服务 Main Sales and Service

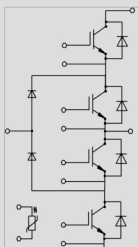
区域 Area	负责人 Responsible	联系方式 Contact	邮箱 E-mail
华南South China	董天舒	+86 13823736924	dts@silan.com.cn
北中国 North China	赵田野	+86 18665367636	zhaotianye@silan.com.cn
	罗 凯	+86 18668182576	luokai@silan.com.cn
	陈日(电焊机)	+86 18158138885	chenri@silan.com.cn
台湾Taiwan	黄思宜	+886-936099271	lorettahuang@silan.com.tw
韩国Korea	叶琪璠	+86-18668157153	yeqiliu@silan.com.cn
其他Others	叶 赞	+86-751-88211725	yeyun@silan.com.cn

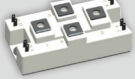
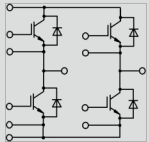
PIM		IC	600V&650V	1200V		
Package	Circuit Configuration	(A)	Low Loss	FAST	Low Loss	
 A5		10			SGM10PA12A5TFD	
		15			SGM15PA12A5TFD	
		20	SGM20PA6A5TFD			
		30	SGM30PA6A5TFD			
 A8		25			SGM25PA12A8TFD	
		35			SGM35PA12A8TFD	
 A6		15			SGM15PA12A6TFD	
		25			SGM25PA12A6TFD	
		40			SGM40PA12A6TFD	
 A6B		25			SGM25PA12A6BTFD	
		35			SGM35PA12A6BTFD	
		50			SGM50PA12A6BTFD	
 A4		50			SGM50PA12A4TFD	
		75			SGM75PA12A4TFD	
 A4B						
		50			SGM50PA12A4BTFD	
		75			SGM75PA12A4BTFD	
		100			SGM100PA12A4BTFD	

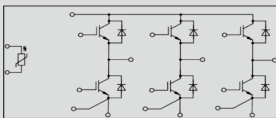
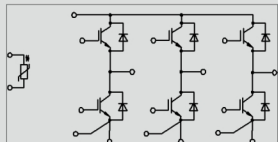
EV		IC	600V&650V	1200V		
Package	Circuit Configuration	(A)	Low Loss	FAST	Low Loss	
 B1		300	SGM300PB7B1TFM			
		400	SGM400PB7B1TFM			
 B2		800	SGM800PB7B2TFM			
 B3		820	SGM820PB8B3TFM			

1-Pack		IC	600V&650V	1200V	
Package	Circuit Configuration	(A)	Low Loss	FAST	Low Loss
 AB		75			SGM75SS12ABTFD
		100			SGM100SS12ABTFD
300				SGM300SS12A3BTFD	
400				SGM400SS12A3BTFD	
600				SGM600SS12A3BTFD	
 A3C					

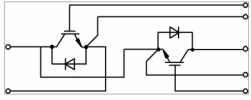
2-Pack		IC	600V&650V	1200V	
Package	Circuit Configuration	(A)	Low Loss	FAST	Low Loss
 A1		40		SGM40HF12A1TFD	
		50		SGM50HF12A1TFD	SGM50HF12A1TLDT4
		75		SGM75HF12A1TFD	SGM75HF12A1TLDT4
		100	SGM100HF6A1TFD	SGM100HF12A1TFD	SGM100HF12A1TLDT4
		150	SGM150HF6A1TFD	SGM150HF12A1TFD	SGM150HF12A1TLD
 A3		100		SGM100HF12A3TFD	SGM100HF12A3TLD
		150		SGM150HF12A3TFD	SGM150HF12A3TLD
		200	SGM200HF6A3TFD	SGM200HF12A3TFD	SGM200HF12A3TLD
		300	SGM300HF6A3TFD	SGM300HF12A3TFD	SGM300HF12A3TLD
		400	SGM400HF6A3TFD		
 B4		450			SGM450HF12A3TLD
		225			SGM225HF12B4TFD
		300			SGM300HF12B4TFD
		450			SGM450HF12B4TFM
		600			SGM600HF12B4TFM

3-Level		IC	600V&650V	1200V		
Package	Circuit Configuration	(A)	Low Loss	FAST	Low Loss	
 A9		100	SGM100TL6A9TFD			
		150	SGM150TL6A9TFD			
 A3B		200	SGM200TL6A3BTFD			
		300	SGM300TL6A3BTFD			

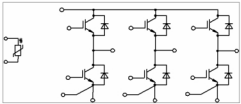
4-Pack		IC	600V&650V	1200V	
Package	Circuit Configuration	(A)	Low Loss	FAST	Low Loss
 AA		50			SGM50HB12AATFD
		75			SGM75HB12AATFD

6-Pack		IC	600V&650V	1200V	
Package	Circuit Configuration	(A)	Low Loss	FAST	Low Loss
 A5C		20	SGM20PB6A5CTFD		
		25			SGM25PB12A5CTFD
		30	SGM30PB6A5CTFD		
		35			SGM35PB12A5CTFD
		50	SGM50PB6A5CTFD		
		50	SGM50PB6A8CTFD		SGM50PB12A8CTFD
		75	SGM75PB6A8CTFD		SGM75PB12A8CTFD
 A8C					
 A6C		50			SGM50PB12A6CTFD
		75			SGM75PB12A6CTFD
 A4C					
		75			SGM75PB12A4CTFD
		100			SGM100PB12A4CTFD
		150			SGM150PB12A4CTFD
		200			SGM200PB12A4CTFD

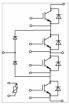
600&650Vces Trench IGBT

Circuit Configuration	Part Number	Vce	Ic	VCE(sat).typ[V]		VF[V]	RthJC(type)	Package
		(v)	(A)	25°C	125°C	25°C	k/W	
	SGM75HF6A1TFD	650	75	1.5	1.6	1.5	0.48	A1
	SGM100HF6A1TFD	650	100	1.45	1.6	1.55	0.45	A1
	SGM150HF6A1TFD	650	150	1.45	1.6	1.55	0.38	A1
	SGM200HF6A3TFD	650	200	1.5	1.65	1.55	0.36	A3
	SGM300HF6A3TFD	650	300	1.5	1.7	1.55	0.33	A3
	SGM400HF6A3TFD	650	400	1.5	1.7	1.6	0.3	A3

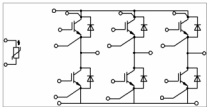
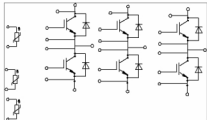
600&650Vces Trench IGBT

Circuit Configuration	Part Number	Vce	Ic	VCE(sat).typ[V]		VF[V]	RthJC(type)	Package
		(v)	(A)	25°C	125°C	25°C	k/W	
	SGM20PB6A5CTFD	600	20	2	2.3	2	1.4	A5C
	SGM30PB6A5CTFD	600	30	2.1	2.5	2.2	1.1	A5C
	SGM50PB6A5CTFD	600	50	1.75	1.90	2.10	0.9	A5C
	SGM50PB6A8CTFD	600	50	1.75	1.90	2.10	0.9	A8C
	SGM75PB6A8CTFD	600	75	1.70	1.80	2.15	0.82	A8C

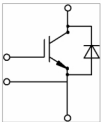
600&650Vces Trench IGBT

Circuit Configuration	Part Number	Vce	Ic	VCE(sat).typ[V]		VF[V]	RthJC(type)	Package
		(v)	(A)	25°C	125°C	25°C	k/W	
	SGM100TL6A9TFD	650	100	1.45	1.6	1.55	0.45	A9
	SGM150TL6A9TFD	650	150	1.45	1.6	1.55	0.38	A9
	SGM200TL6A3BTFD	650	200	1.5	1.6	1.7	0.22	A3B
	SGM300TL6A3BTFD	650	300	1.5	1.56	1.85	0.16	A3B

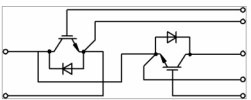
650&750Vces Trench IGBT

Circuit Configuration	Part Number	Vce	Ic	VCE(sat).typ[V]		VF[V]	RthJC(type)	Package
		(v)	(A)	25°C	125°C	25°C	k/W	
	SGM400PB7B1TFM	650	400	1.55	1.7	1.65	0.12	B1
	SGM800PB7B2TFM	650	800	1.30	1.35	1.40	0.09	B2
	SGM820PB8B3TFM	750	820	1.3	1.4	1.6	0.08	B3

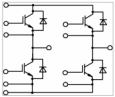
1200Vces Fast IGBT

Circuit Configuration	Part Number	Vce	Ic	VCE(sat).typ[V]		VF[V]	RthJC(type)	Package
		(v)	(A)	25°C	125°C	25°C	k/W	
	SGM75SS12ABTFD	1200	75	1.65	1.9	2.2	0.28	AB
	SGM100SS12ABTFD	1200	100	1.7	1.91	2.2	0.25	AB
	SGM300SS12A3CTFD	1200	300	1.61	1.85	2.18	0.10	A3B
	SGM400SS12A3CTFD	1200	400	1.6	1.85	2.18	0.08	A3B
	SGM600SS12A3CTFD	1200	600	1.7	1.9	2.1	0.05	A3B

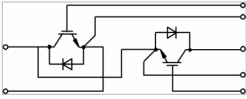
1200Vces Fast IGBT

Circuit Configuration	Part Number	Vce	Ic	VCE(sat).typ[V]		VF[V]	RthJC(type)	Package
		(v)	(A)	25°C	125°C	25°C	k/W	
	SGM40HF12A1TFD	1200	40	2.10	2.30	2.10	—	A1
	SGM50HF12A1TFD	1200	50	2.37	2.58	1.90	0.39	A1
	SGM75HF12A1TFD	1200	75	2.20	2.40	2.10	0.33	A1
	SGM100HF12A1TFD	1200	100	2.10	2.30	2.10	0.26	A1
	SGM100HF12A3TFD	1200	100	2.10	2.60	2.00	0.25	A3
	SGM150HF12A3TFD	1200	150	2.30	2.70	2.00	0.15	A3
	SGM200HF12A3TFD	1200	200	1.80	2.00	2.20	0.12	A3
	SGM300HF12A3TFD	1200	300	2.20	2.50	2.18	0.10	A3

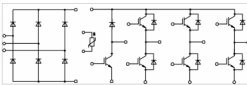
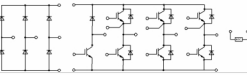
1200Vces Fast IGBT

Circuit Configuration	Part Number	Vce	Ic	VCE(sat).typ[V]		VF[V]	RthJC(type)	Package
		(v)	(A)	25°C	125°C	25°C	k/W	
	SGM50HB12AATFD	1200	50	2.2	2.7	2.18	0.39	AA
	SGM75HB12AATFD	1200	75	2.35	2.8	2.18	0.35	AA

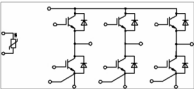
1200Vces Trench IGBT

Circuit Configuration	Part Number	Vce	Ic	VCE(sat).typ[V]		VF[V]	RthJC(type)	Package
		(v)	(A)	25°C	125°C	25°C	k/W	
	SGM50HF12A1TLDT4	1200	50	1.71	1.85	1.90	0.39	A1
	SGM75HF12A1TLDT4	1200	75	1.61	1.81	2.10	0.33	A1
	SGM100HF12A1TLDT4	1200	100	1.67	1.88	2.10	0.26	A1
	SGM150HF12A1TLD	1200	150	1.55	1.73	2.10	0.15	A1
	SGM150HF12A1TFD	1200	150	1.55	1.73	2.10	0.15	A1
	SGM100HF12A3TLD	1200	100	1.61	1.86	2.00	0.25	A3
	SGM150HF12A3TLD	1200	150	1.57	1.69	2.00	0.15	A3
	SGM200HF12A3TLD	1200	200	1.61	1.85	2.20	0.12	A3
	SGM300HF12A3TLD	1200	300	1.61	1.85	2.18	0.10	A3
	SGM450HF12A3TLD	1200	450	1.6	1.85	2.18	0.08	A3
	SGM300HF12B4TFM	1200	300	1.75	2	1.66	0.078	B4
	SGM450HF12B4TFM	1200	450	1.8	2	1.68	0.06	B4
	SGM600HF12B4TFM	1200	600	1.78	2	1.68	0.057	B4

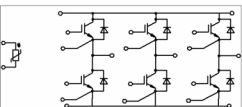
1200Vces Trench IGBT

Circuit Configuration	Part Number	Vce	Ic	VCE(sat).typ[V]		VF[V]	RthJC(type)	Package
		(v)	(A)	25°C	125°C	25°C	k/W	
	SGM10PA12A5TFD	1200	10	2.50	2.90	2.20	1.98	A5
	SGM15PA12A5TFD	1200	15	2.60	3.10	2.90	1.60	A5
	SGM25PA12A8TFD	1200	25	2.1	2.3	2.1	0.54	A8
	SGM35PA12A8TFD	1200	35	1.9	2.2	2.3	0.45	A8
	SGM15PA12A6TFD	1200	15	2.60	3.00	2.80	1.30	A6
	SGM25PA12A6TFD	1200	25	2.10	2.40	2.20	0.67	A6
	SGM40PA12A6TFD	1200	40	2.50	2.90	2.80	0.57	A6
	SGM25PA12A6BTFD	1200	25	2.10	2.40	2.20	0.67	A6B
	SGM35PA12A6BTFD	1200	35	2.20	2.50	2.50	0.57	A6B
	SGM50PA12A6BTFD	1200	50	1.70	1.90	2.06	0.55	A6B
	SGM50PA12A4TFD	1200	50	1.70	1.90	2.06	0.48	A4
	SGM75PA12A4TFD	1200	75	1.63	1.80	2.05	0.37	A4
	SGM50PA12A4BTFD	1200	50	1.70	1.90	2.06	0.48	A4B
	SGM75PA12A4BTFD	1200	75	1.63	1.80	2.05	0.37	A4B
	SGM100PA12A4BTFD	1200	100	1.70	1.90	2.10	0.25	A4B

1200Vces Trench IGBT

Circuit Configuration	Part Number	Vce	Ic	VCE(sat).typ[V]		VF[V]	RthJC(type)	Package
		(v)	(A)	25°C	125°C	25°C	k/W	
	SGM25PB12A5CTFD	1200	25	2.1	2.3	2.1	0.54	A5C
	SGM35PB12A5CTFD	1200	35	1.9	2.2	2.3	0.45	A5C
	SGM50PB12A8CTFD	1200	50	1.75	1.90	2.10	0.43	A8C
	SGM75PB12A8CTFD	1200	75	1.70	1.80	2.15	0.40	A8C

1200Vces Trench IGBT

Circuit Configuration	Part Number	Vce	Ic	VCE(sat).typ[V]		VF[V]	RthJC(type)	Package
		(v)	(A)	25°C	125°C	25°C	k/W	
	SGM50PB12A6CTFD	1200	50	1.70	1.90	2.06	0.55	A6C
	SGM75PB12A6CTFD	1200	75	1.63	1.80	2.05	0.37	A6C
	SGM75PB12A4CTFD	1200	75	1.63	1.80	2.05	0.37	A4C
	SGM100PB12A4CTFD	1200	100	1.70	1.90	2.10	0.25	A4C
	SGM150PB12A4CTFD	1200	150	1.60	1.80	2.30	0.20	A4C