



乐山无线电股份有限公司

授权代理商：欧特斯电子（中国）有限公司

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2009新产品介绍

09年6月25日 成都



2009 SMD新品简介

- ❖ MOSFET
- ❖ ESD保护器件
- ❖ 通用器件
- ❖ IC产品
- ❖ 新封装

2009-6-20

MOSFET

❖ 高压MOS

Device	Package	Channel	BVDSS (V)	VGS (V)	ID (A)	Reliability
L1N60A	TO-92	N	650	30	0.5	PASS
L1N60	TO-220	N	650	30	1.2	PASS
L4N60	TO-220	N	650	30	4.0	PASS
L6N60	TO-220	N	650	30	6.2	PASS
L7N60	TO-220	N	650	30	7.4	PASS
L8N60	TO-220	N	650	30	7.5	PASS

❖ 低压MOS

DEVICE	BVDSS	VGS	ID(A)	MAX LIMIT (mohm)	STATUS
LP2301LT1G	20	8	2.3	100(ID=2.8A,VGS=4.5V)	Approval
LP4101LT1G	20	8	2.3	150(ID=2.0A,VGS=2.5V)	Approval
LN2302LT1G	20	8	2.3	60(ID=2.8A,VGS=4.5V)	Approval
LN4501LT1G	20	12	3.2	70(ID=3.6A,VGS=4.5V)	Approval
LP2305DSL1G	12	8	3.5	68(ID=3.5A,VGS=4.5V)	Approval
LN2502LT1G	20	12	4.2	45(ID=4.2A,VGS=4.5V)	Approval
LP2305LT1G	30	12	4.2	70(ID=4.2A,VGS=10V)	Approval
LN2306LT1G	30	12	5.8	38(ID=5.8A,VGS=10V)	Approval
LP2307LT1G	16	8	4.7	70(ID=4.7A,VGS=4.5V)	Approval
LP3443LT1G	20	12	4.7	70(ID=4.7A,VGS=4.5V)	Approval
LP9435LT1G	30	20	5.3	70(ID=5.3A,VGS=10V)	Approval
LN2312LT1G	20	8	4.9	41(ID=5A,,VGS=4.5V)	Approval
LN9926LT1G	20	12	6	45(ID=6A,VGS=4.5V)	Approval
LN4812LT1G	30	20	6.9	38(ID=8.5A,VGS=10V)	Approval

- ❖ 低压大电流MOSFET, 适用于SOT23/SOP-8封装
- ❖ 低导通电阻设计
- ❖ 广泛应用于锂电池保护电路, 无绳电话, 电表等领域

MOSFET

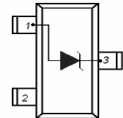
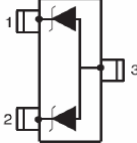
❖ 低压MOSFET

Device	Package	Polarity	BVDSS	VGS	ID(A)	ESD
LNTA4001NT1G	SC89	N	20	10	0.238	Y
LNTA7002NT1G	SC89	N	30	10	0.154	Y
LNTR4003NLT1G	SOT23	N	30	20	0.5	Y
LSI1012RT1G	SC89	N	20	6	0.5	Y
LSI1013RT1G	SC89	P	20	6	0.5	Y

- ❖ 低压小电流MOSFET, 主要适用于SC89等小封装
- ❖ ESD保护设计, 高可靠性
- ❖ 广泛应用于手机, 电脑主板等领域







ESD保护器件

ESD/TVS DIODE ARRAYS(1)

PART NUMBER	DEVICE SCHEMATIC	V_{WM}	V_{BR}	VC @ I_{PP}	$I_{PP}@$ 8/20 μ s- A	IR-mA @ V_{WM}	Cj-pF	PACKAGE
LGSOT04LT1G		4	5	8.5	17	20	300	SOT-23
LGSOT05LT1G		5	6	9.8	17	20	220	SOT-23
LGSOT08LT1G		8	8.5	13.4	15	5	190	SOT-23
LGSOT12LT1G		12	13.3	19	12	1	150	SOT-23
LGSOT04CLT1G		4	5	8.5	17	20	300	SOT-23
LGSOT05CLT1G		5	6	9.8	17	20	220	SOT-23
LGSOT08CLT1G		8	8.5	13.4	15	5	190	SOT-23
LGSOT12CLT1G		12	13.3	19	12	1	90	SOT-23
LGSOT15CLT1G		15	16.7	24	10	1	60	SOT-23





ESD保护器件

ESD/TVS DIODE ARRAYS(3)

PART NUMBER	DEVICE SCHEMATIC	V_{WM}	V_{BR}	$VC@I_{PP}$	$I_{PP}@8/20\mu s-A$	$IR-Ma@V_{WM}$	Cj-pF	PACKAGE
LESD3Z5.0T1G		5	6	9.8	5	10	350	SOD-323
LESD5Z3.3T1G		3.3	5	14.1	11.2	1	105	SOD-523
LESD5Z5.0T1G		5	6.2	18.6	9.4	1	80	SOD-523
LESD5Z7.0T1G		7	7.5	22.7	8.8	1	65	SOD-523
LESD7D3.3T5G		3.3	5	10.4	9.8	2.5	80	SOD-723
LESD7D5.0T5G		5	6.2	12.3	8.7	1	65	SOD-723
LESD9D3.3T5G		3.3	5	10.4	9.8	2.5	80	SOD-923
LESD9D5.0T5G		5	6.2	12.3	8.7	1	65	SOD-923
LESD5Z5.0CT1G		5	5.6	18.6	9.4	1	80	SOD-523
LESD9D3.3CT5G		3.3	5	14.1	11.2	1	25	SOD-923
LESD9D5.0CT5G		5	5.6	18.6	9.4	1	15	SOD-923

通用二极管/三极管

❖ 开关二极管

型号	封装	VR	IR (TYP)	TRR(TYP)	内部结构
LBAS116LT1G	SOT-23	75V	3pA	3us	
LBAV199LT1G	SOT-23	75V	3pA	3us	
LBAW156LT1G	SOT-23	75V	3pA	3us	
LBAV170LT1G	SOT-23	75V	3pA	3us	

特点:

低漏流设计 (TYP 3pA), 可应用于各种开关电路
4种不同的内部结构设计, 适应性强

Diodes

❖ 稳压二极管

型号	封装	I _Z	精度
LMSZ52**T1G	SOD-123	20mA	5%
LBZT52C**T1G	SOD-123	5mA	5%
LBZT52B**T1G	SOD-123	5mA	2%
LMSZ46**T1G	SOD-123	50uA	5%

Diodes

❖ 肖特基二极管

型号	封装	VR (V)	IF (mA)	VF (V)	@IF (mA)	内部结构
LBAT54TW1T1G	SC88	30	200	1	100	
LBAT54DW1T1G	SC88	30	200	1	100	
LBAT54XV2T1G	SOD523	30	200	1	100	
LRB731XNRT1G	SC88	40	30	0.37	1	
LBAS170HT1G	SOD323	70	70	1	15	
LRB715FT1G	SC70	40	30	0.37	1	

Diodes

❖ 肖特基二极管

型号	封装	VR (V)	IF (A)	VF MAX (V)	@IF (mA)
LMSD103AT1G	SOD-123	40	0.35	0.6	200
LMSD103BT1G	SOD-123	30	0.35	0.6	200
LMSD103BT1G	SOD-123	20	0.35	0.6	200
LMBR0520T1	SOD-123	20	0.5	0.385	500
LMBR0530T1	SOD-123	30	0.5	0.45	500
LMBR0540T1	SOD-123	40	0.5	0.55	500
LMBR130T1G	SOD-123	30	1	0.35	100
LMBR140T1G	SOD-123	40	1	0.56	1000

通用二极管/三极管

❖ 通用三极管

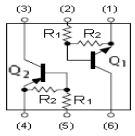
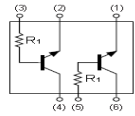
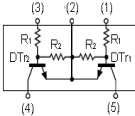
型号	封装	BVCEO	BVEBO	IC	HFE
LMBT6428LT1G	SOT-23	50V	6V	200mA	250-650
LMBT6429LT1G	SOT-23	45V	6V	200mA	500-1250

特点:

主要应用在各种放大电路

Transistors

- 帶阻三极管

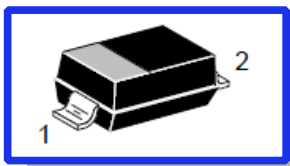
Device	Package	IC (mA)	VCEO (V)	hFE @ IC			R1 (KΩ)	R2 (KΩ)	Polarity
				Min	Max	(mA)			
LUMD12NDW1T1G	SC88	100	50	68	-	5	47	47	
LUMF23NDW1T1G	SC88	150	50	180	390	1	-	-	
		100	50	30	-	5	10	10	
LUMH14NDW1T1G	SC88	100	50	100	600	1	47	-	
LUMG2NT1G	SC88A	100	50	68	-	5	47	47	
LUMG10NT1G	SC88A	100	50	33	-	50	1	10	
LUMC3NT1G	SC88A	100	50	35	-	5	10	10	
		100	50	35	-	5	10	10	

新封装简介

- ❖ SOD-123
- ❖ SOD-723/923
- ❖ SOT723/SOT1123
- ❖ TSOP-5/6

新封装简介

❖ SOD-123

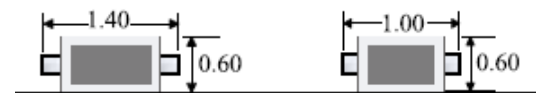


封装尺寸: 2.6mm*1.7mm*1.2mm, 典型产品包含开关二极管, 肖特基二极管和稳压二极管产品系列

产品类别	重点产品型号
开关二极管	L1N4148WT1G
肖特基二极管	LMBR0520T1G/LMBR0530T1G/LMBR0540T1G
	LMBR130T1G/LMBR140T1G
稳压二极管	LMSZ52**T1G系列 (@20mA)
	LBZT52C**T1G系列 (@5mA)
	LMSZ46**T1G系列 (@50uA)

新封装简介

❖ SOD-723/923



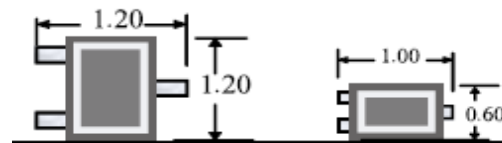
SOD723 SOD923

超小体积封装, 适用于手机, 便携式设备, 数码相机等领域
主要产品涵盖开关二极管, 肖特基二极管

产品类别	封装	重点产品型号
开关二极管	SOD723	L1SS400GT1G
	SOD923	L1SS400CST5G
肖特基二极管	SOD723	LRB521G-30T1G/LRB520G-30T1G /LRB751G-40T1G
	SOD923	LRB521CS-30T5G/LRB520CS-30T5G /LRB751CS-40T5G

新封装简介

❖ SOT723/SOT1123



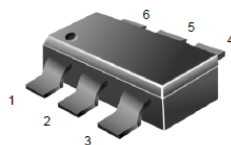
SOT723 SOT1123

超小体积封装, 适用于手机, 便携式设备, 数码相机等领域
主要产品涵盖开关三极管, 数字三极管等

产品类别	封装	重点产品型号
开关三极管	SOT723	LMBT3904M3T5G/LMBT3906M3T5G
	SOT1123	LMBT3904F3T5G/LMBT3906F3T5G
数字三极管	SOT723	LDTA**M3T5G/LDTC**M3T5G

新封装简介

❖ TSOP-6



适用于大功率产品,可封装分立器件,IC等各类产品.

产品类别	产品型号	内部结构
开关二极管	LIMN10T1G	A circuit diagram of a three-diode bridge rectifier. It consists of three diodes connected in a bridge configuration. The top terminals are labeled 6, 5, and 4 from left to right. The bottom terminals are labeled 1, 2, and 3 from left to right.
通用三极管	LMBT35200T1G	A circuit diagram of a common-emitter BJT. The base is connected to pin 3. The emitter is connected to pin 4. The collector is connected to pins 1, 2, 5, and 6.
MOSFET	LN9926T1G	A circuit diagram of a MOSFET with an anti-parallel diode. The MOSFET is connected between pins 1 and 2. The diode is connected between pins 3 and 4. Pins 5 and 6 are also shown.

L74VHC1GXXX单门逻辑



TSOP5 SC70-5

L74VHC1GXXX单门逻辑

分 类	名 称	输入缓冲器			输出缓冲器		产品数量
		CMOS	TTL	无	CMOS	OD (漏极开路)	
1	无缓冲(U04)			●	●		1
2	CMOS输入缓冲	●			●		11
3	CMOS/TTL兼容输入	●	●		●		14
4	漏极开路输出	●				●	6

各公司产品型号互换表

输入	LRC	TI	TOSHIBA	STM	FAIRCHILD	NXP	ON
CMOS	L74VHC1G	SN74AHC1G	TC7SH	74V1G	NC7S	74AHC1G	MC74VHC1G
TTL/ CMOS	L74VHC1GT	SN74AHCT1G	TC7SET	74C1GT	NC7ST	74AHCT1G	MC74VHC1GT

电源管理电路

❖ LDO

型 号	通道	封装	Iout (mA)	Vout (V)	Iq (uA)	ΔV_{drop} (mV)
LR6155	2	SOT23-6	150	1.2~5.0	25	220 (120mA/2.8~4.0v)
LR6156	2	SOT23-6	300	1.5~4.5	20	160 (300mA/ $\geq 2.8V$)
LR8562	1	SOT23-3	150	0.8~5.0	25	220 (120mA/2.8~4.0v)
LR8563	1	SOT23-5 SC70-5	300	1.5~4.5	15	160 (300mA/ $\geq 2.8V$)
LR8552	1	SOT23-3 SOT23-5	300	1.2~3.6	2	280 (150mA)
LR8558	1	SOT23-3/5 SOT89-3	500	1.2~4.5	75	460 (500mA/ $\geq 2.8V$)
LR8553	1	SOT23-3/5 SOT89-3	400	1.5~6.0	7	470 (200mA/2.0V)
LR9193 (for RF)	1	SOT23-5 SC70-5	300	2.5~5.5	90	210 (300mA/2.8V)
LR1117C	1	SOT223 TO252	1000	1.25~13.8	4000	1260 (1A)

DC-DC转换

型号	类别	封装	Vin (V)	Vout (V)	Isw (mA)	fosc (KHz)	输出电压类型
LR8301	boost	SOT23-3/5 SOT89-3/5	0.9min	1.8~6.5	200	100	Fixed
LR9908	boost	SOT23-5 SOT89-5	0.9min	18		100	Adjustable
LR3406	buck	SOT23-5	5.5max	1.0~3.3		1500	Fixed/Adjustable
LR34063	Boost/buck /inverting	SOP8 DIP8			1500	33	Adjustable
LR2596	buck	TO263-5 TO220-5	40max	1.4~37	3000	150	Fixed/Adjustable

AC-DC转换

型号	封装	Po (W)	fosc(KHz)	Vdd(V)	解决方案
LR2257	SOP8	3	70	8.5~12	需光耦，电流模式PWM。
LR6170	SOT23-6	5~6	62	11~12.4	不需光耦和431，恒压/恒流模式可编程，发射极驱动。低成本方案。

检测复位电路

型号	Delay Time	封装	Vdet (V)	Iq (uA)	Accuracy (%)	输出
LR8808	No	SOT23-3 SOT89-3	1.5~6.0	1.0	±2	CMOS/OD
LR8809	200ms	SOT23-3 SOT89-3	1.5~6.0	1.0	±2	CMOS/OD
LR6301	No	SOT23-3 SOT89-3	0.9~6.0	0.5	±2	CMOS/OD

LED DRIVER

型号	封装	Type	OVP	Vfeedback (mV)	fosc (MHz)	LEDs
LR246	SOT23-6	DC-DC	Yes	86min	1.2	2~4
LR256	SOT23-5	DC-DC	No	86min	1.2	2~4
LR1937S	TSOP6	DC-DC	Yes	250min	1.2	2~4

三端稳压器

型号	封装	Io(mA)	Vo(V)
LR78LXX	TO92 SOT89	100	5/12
LR78MXX	SOT89 TO220	500	5/8
LR78XX	TO220	1000	5/6/12
LR317	TO220	1500	1.3~37

运放/比较器

型号	封装		
LR4558	SOP8 DIP8	高精度双运放	
LR358	SOP8 DIP8	双运放	
LR324	SOP14 DIP14	四运放	
LR393	SOP8 DIP8	双比较器	
LR339	SOP14 DIP14	四比较器	

模拟开关

型号	Type	封装	Ron (Ω)	BW-3dB (MHz)	Off-Iso (dB)	ton(ns)/ toff(ns)
LR1551	SPDT	SC70-6	2.7	300	84(1MHz)	12/5
LR1552	Dual SPDT	CSP-10	0.4	27	60(0.1MHz)	25/8
LR1553	SPDT	SC70-6	0.6	84	61(1MHz)	12/10
LR1554	Dual SPDT	QFN16 (3×3)	0.4	42	65(0.1MHz)	20/10

音频电路

型号	封装	Type	Vop(V)	Po(W)	PSRR(dB)	CMRR(dB)
LR6311	WCSP9	Class D	2.5~5.5	3.0	75	68
LR6212	MSOP8 WCSP9	Class AB	2.5~5.5	1.28	62	



Thank You !

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