

BRCS2301EMF

Rev.A Aug.-2019



DATA SHEET

/ Revised record

A	2019-08-07	ALL	SI2301 BRCS2301EMF SOT23-6		

/ Descriptions

SOT23-6 P MOS

P- CHANNEL MOSFET in a SOT23-6 Plastic Package.

/ Features

$R_{DS(ON)}$ 110m Ω , $V_{GS} = -4.5V$

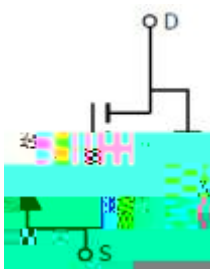
$R_{DS(ON)}$ 150m Ω , $V_{GS} = -2.5V$

HF Product.

/ Applications

Primarily the display screen drive applications.

/ Equivalent Circuit



/ Pinning



PIN1 D PIN 2 D PIN 3 G PIN 4 S PIN 5 D PIN 6 D

/ Marking

Marking	2301E ****
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/ Electrical Characteristics(Ta=25)

参数 Parameter	符号 Symbol	测试条件 Test Conditions	最小值 Min	典型值 Typ	最大值 Max	单位 Unit
Input Capacitance	C_{iss}	$V_{DS}=-15V$ $V_{GS}=0$ $f=1MHz$		510		pF
Output Capacitance	C_{oss}			53		
Reverse Transfer Capacitance	C_{rss}			17		
Turn-On Delay Time	$t_{d(on)}$	$V_{DD}=-6V$ $R_L=6\Omega$ $R_G=6\Omega$ $V_{GS}=4.5V$		1360		ns
Turn-On Rise Time	t_r			831		
Turn-Off Delay Time	$t_{d(off)}$			5520		
Turn-Off Fall Time	t_f			1520		

/ Electrical Characteristic Curve

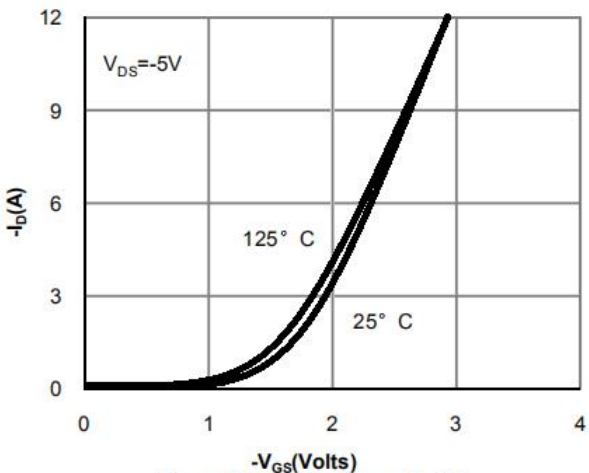
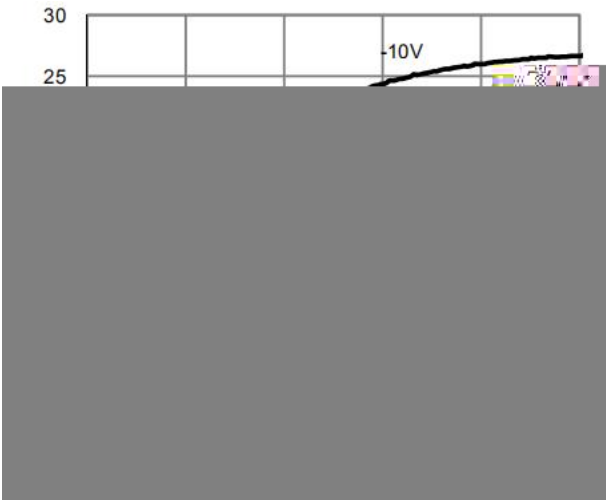
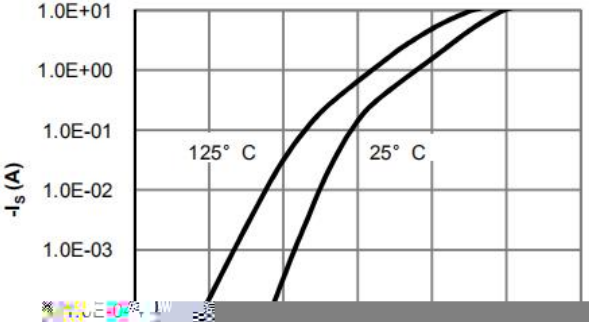
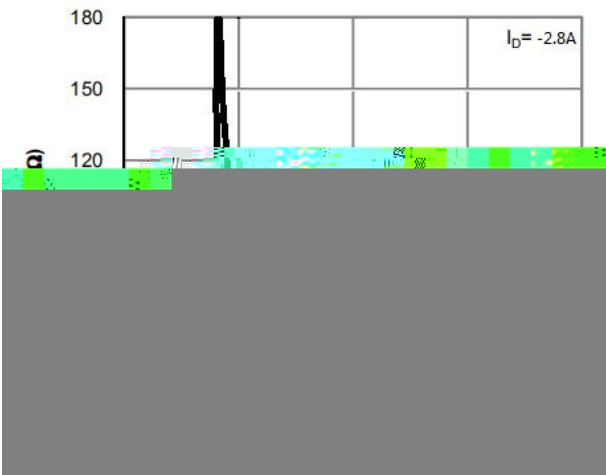
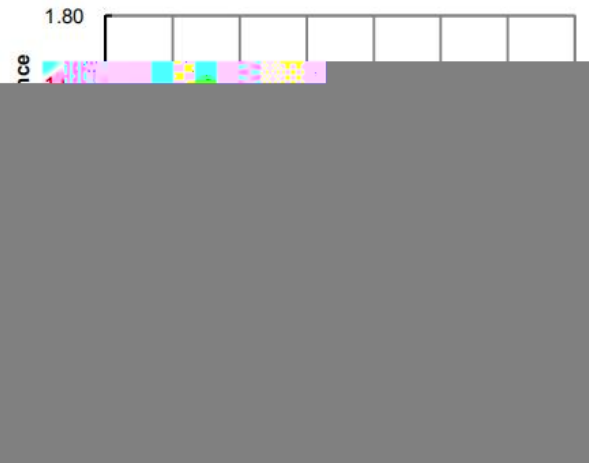
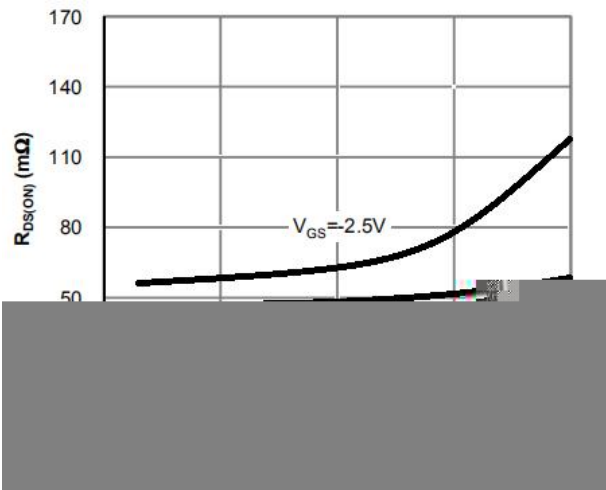


Figure 2: Transfer Characteristics



/ Electrical Characteristic Curve

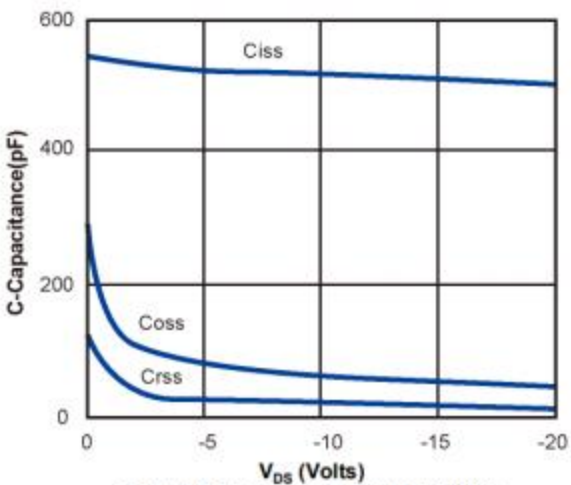
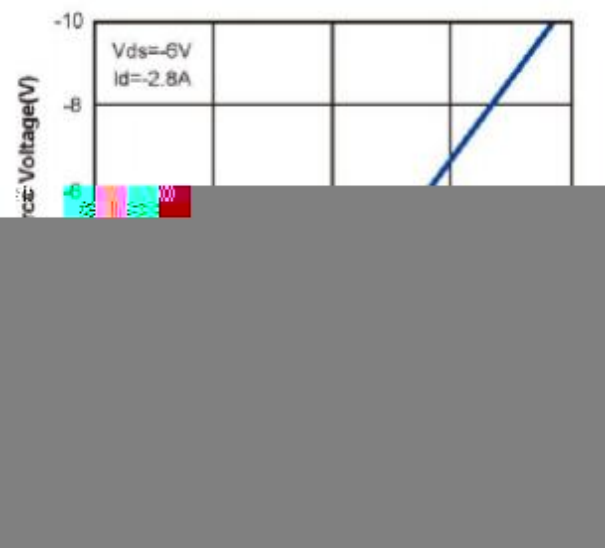
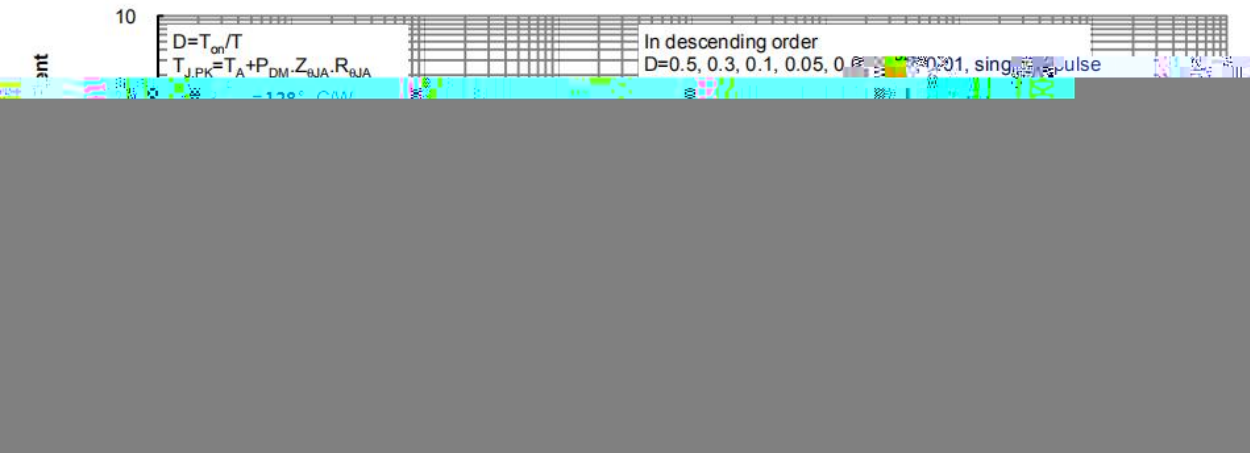
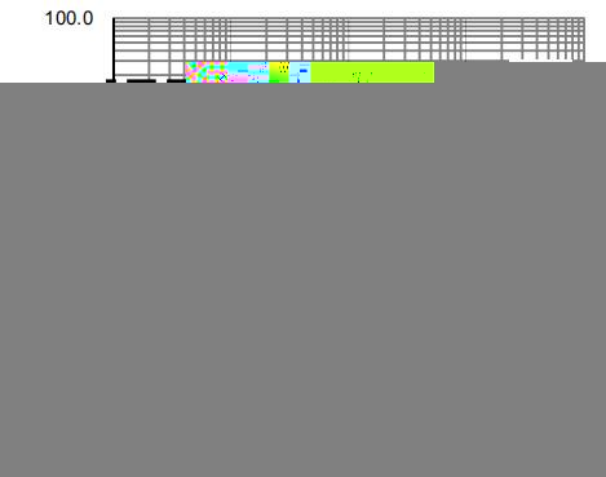
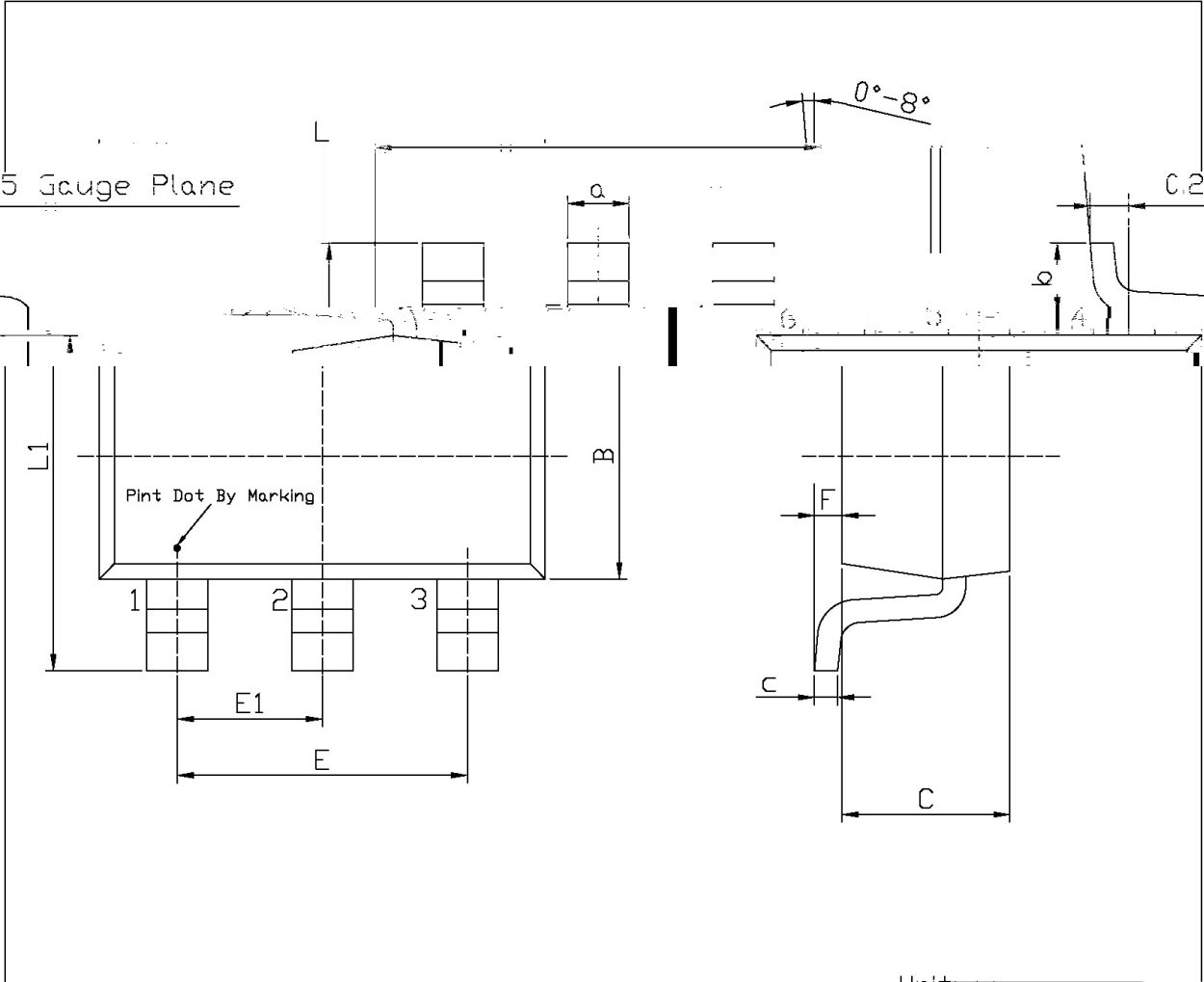


Figure 8: Capacitance Characteristics



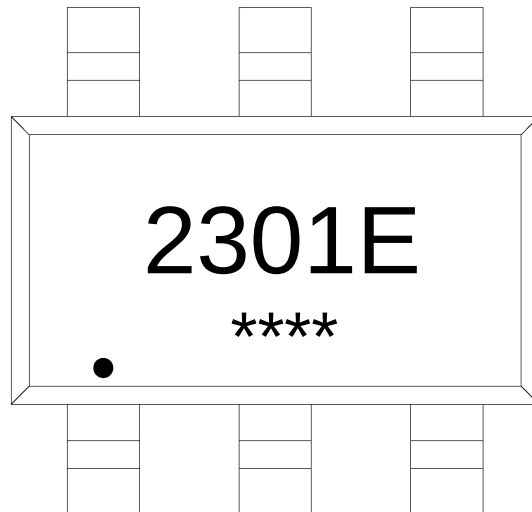
/ Package Dimensions



Dimensions In Millimeters						Dimensions In Millimeters					
2.82	3.02	0.85	1.05	0.10	0.20	0.10	0.20	0.35	0.55	1.00	2.00
0.90	1.30	0.35	0.50	0.10	0.20	0.35	0.55	1.00	2.00	0.10	0.20
L1	2.60	3.00	b	0.35	0.55	0.35	0.55	1.00	2.00	0.10	0.20

S7T23-6

/ Marking Instructions



说明：

2301E: 为型号代码

****: 为公司代码

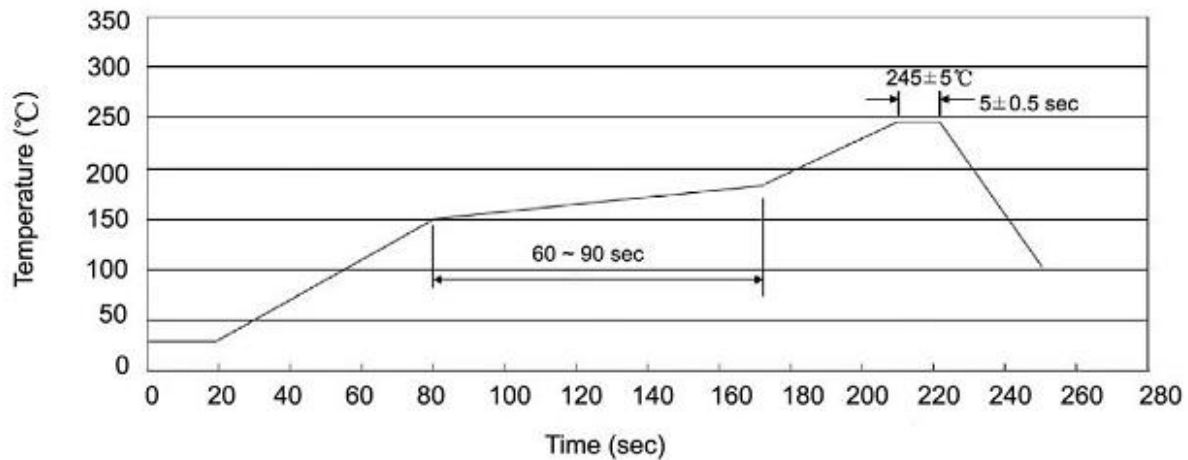
Note:

2301E : Product Type

****: Company Code.



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说明：

- 1、预热温度 150~180°C，时间 60~90sec;
- 2、峰值温度 245±5°C，时间持续为 5±0.5sec;
- 3、焊接制程冷却速度为 2~10°C/sec.

Note:

- 1.Preheating:150~180°C, Time:60~90sec.
- 2.Peak Temp.:245±5°C, Duration:5±0.5sec.
3. Cooling Speed: 2~10°C/sec.

/ Resistance to Soldering Heat Test Conditions

温度：260±5°C

时间：10±1 sec.

Temp.:260±5°C

Time:10±1 sec

/ Packaging SPEC.

卷盘包装 / REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
SOT23-5/6	3,000	10	30,000	4	120,000	7" ×8	210×205×205	445×230×435

/ Notices