



/ 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

$R_{DS(ON)}$ 110mΩ,VGS=-4.5V
 $R_{DS(ON)}$ 150mΩ,VGS=-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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BRCS2301EMF

Rev.A Aug.-2019

DATA SHEET



/ 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

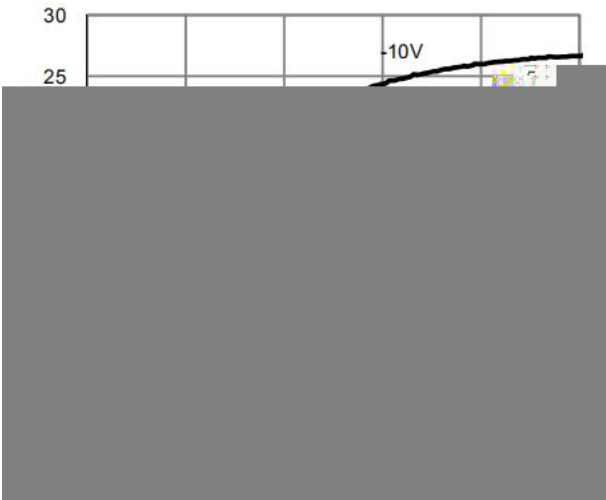
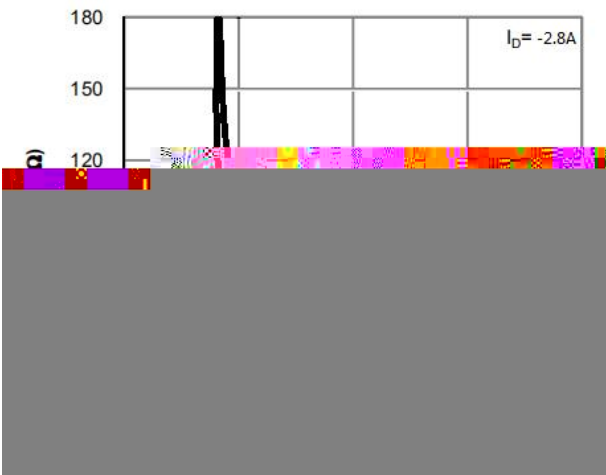
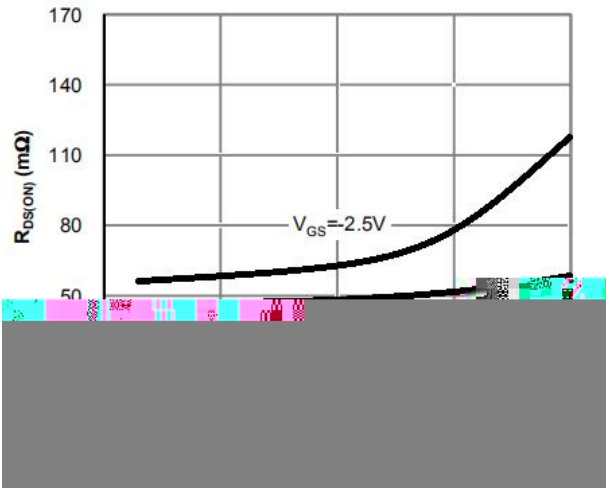


Figure 2: Transfer Characteristics



/ Electrical Characteristic Curve

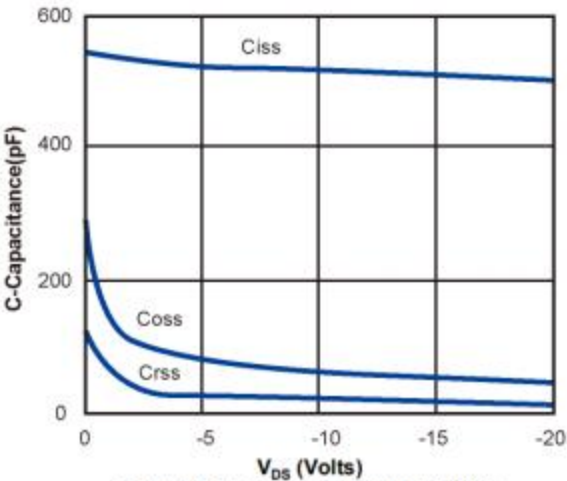
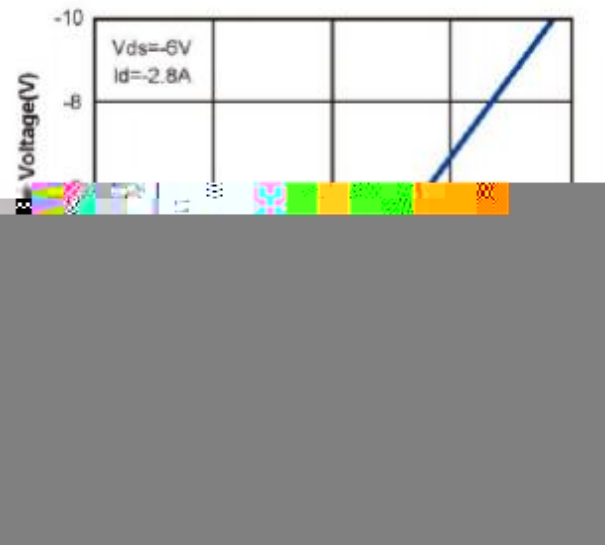
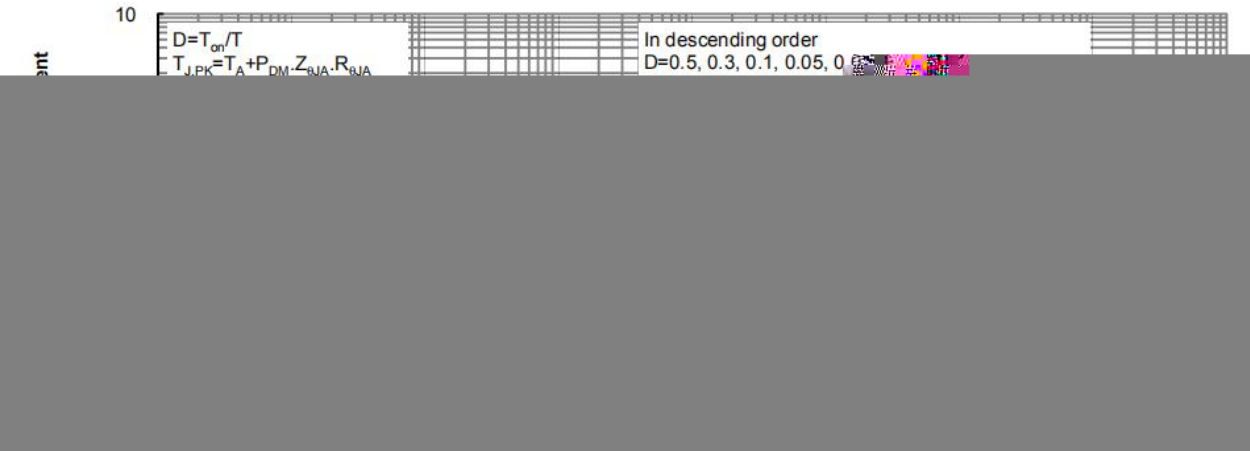
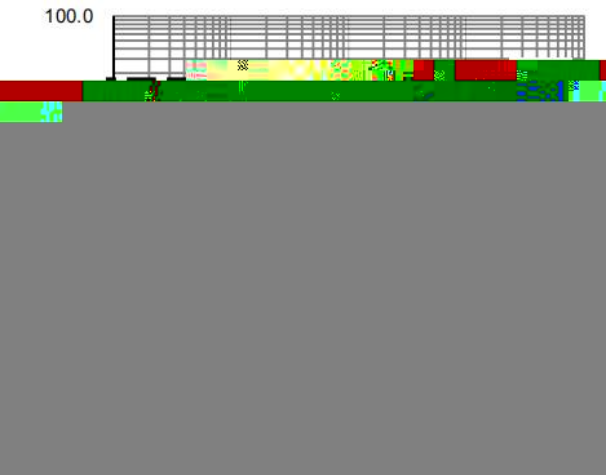
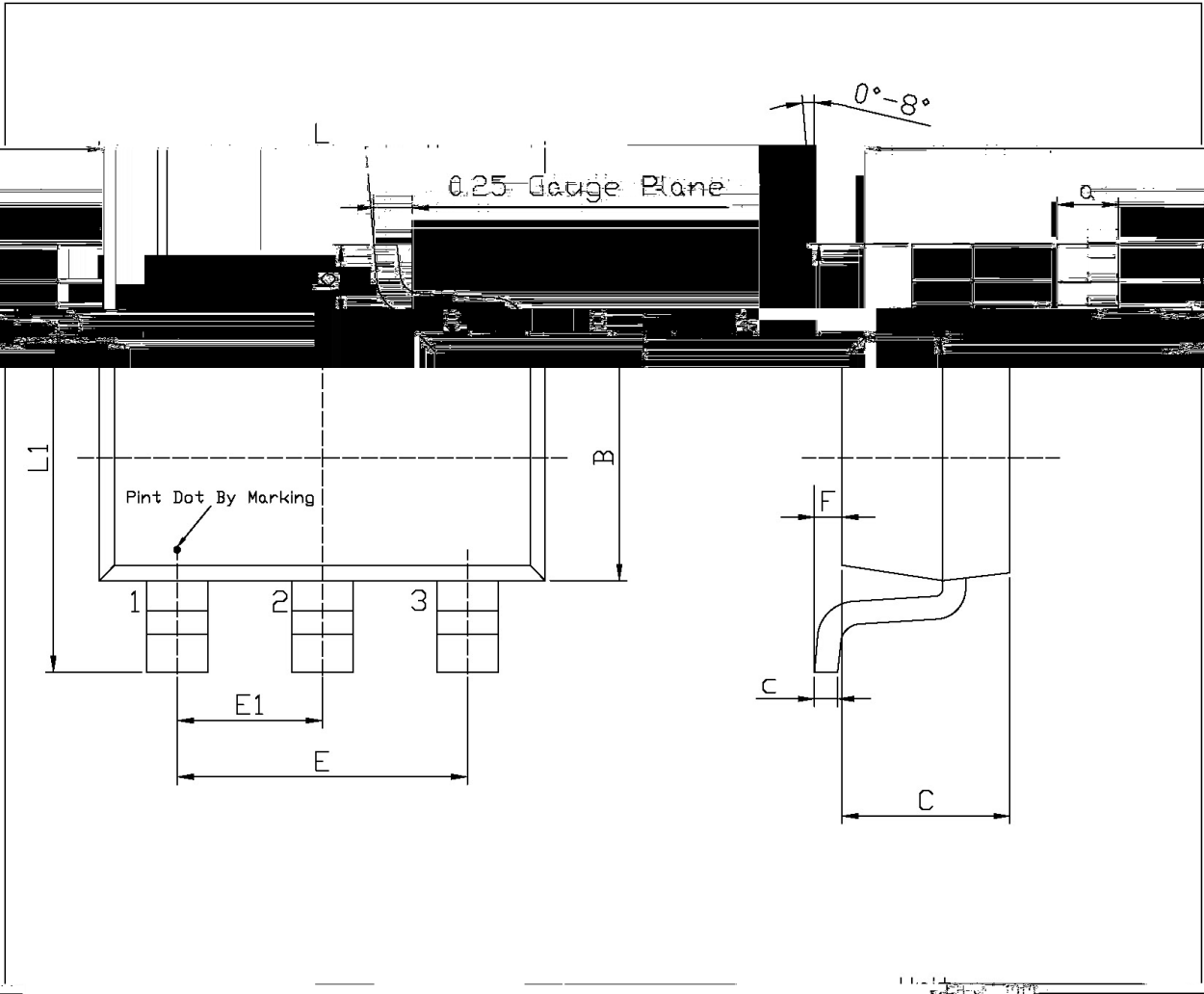


Figure 8: Capacitance Characteristics



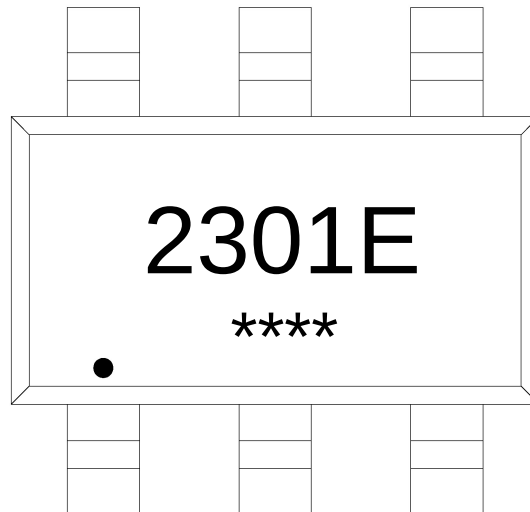
/ Package Dimensions



Dimensions In Millimeters			Dimensions In Millimeters		
Max	0.85	1.05	Max	0.38	0.50
C	0.90	1.30	C	0.10	0.20
L1	2.60	3.00	b	0.35	0.55
				1.80	2.00

S.TT23-6

/ Marking Instructions



说明：

2301E: 为型号代码

****: 为公司代码

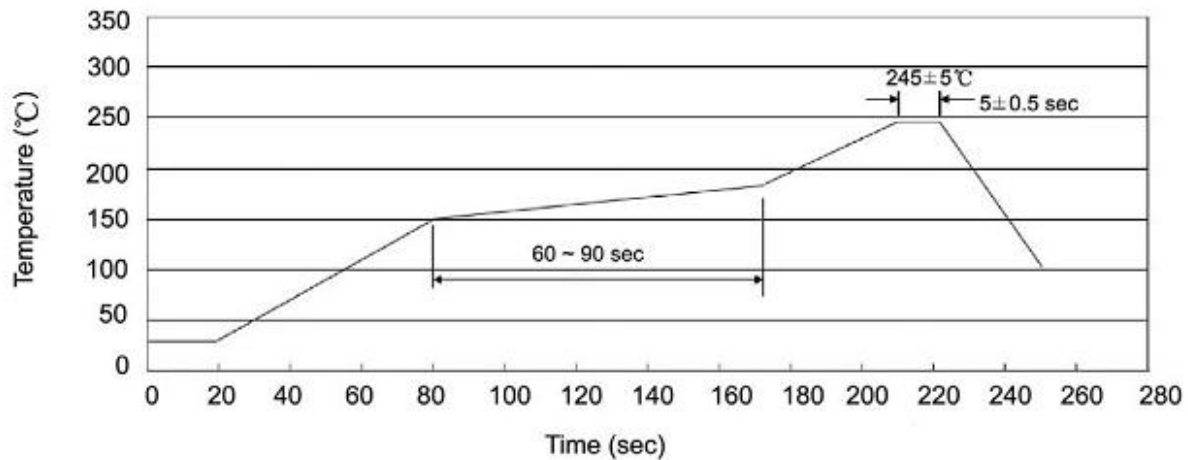
Note:

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