

/ Descriptions

SOT-23

MOS

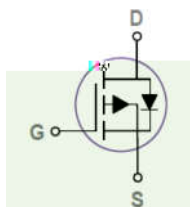
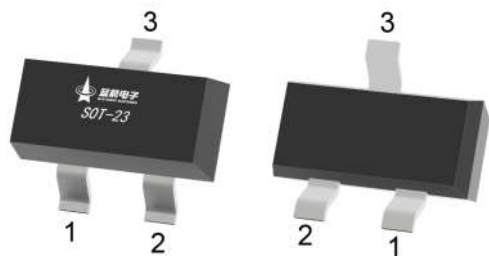
P- CHANNEL MOSFET in a SOT-23 Plastic Package.

/ Features

MOSFET

Trench Power MOSFET technology, Low $R_{DS(ON)}$, Low Gate Charge, HF Product.**/ Applications**

Primarily the display screen drive applications.

/ Equivalent Circuit**等****/ Pinning**

PIN1 G

PIN 2 S

PIN 3 D

/ Marking**效**

Marking	H305
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Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	-20	V
Gate-Source Voltage	V_{GS}	± 12	V
Drain Current – Continuous	$I_D(T_C=25^\circ\text{C})$	-4.3	A
Pulsed Drain Current		-18	A
Power Dissipation			
Operating and Storage Temperature			
Junction-to-Ambient	$t \leq 10$		
Junction-to-Ambient	Steady-State		
Junction-to-Lead	Steady-State		

Parameter

Drain-Source Breakdown Voltage $V_{(BR)DSS}$ $V_{GS}=0V$ $I_D=-250\mu A$ -20 -25

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{GS} = -4.5V$ $V_{DS} =$				

/ Electrical Characteristic Curve

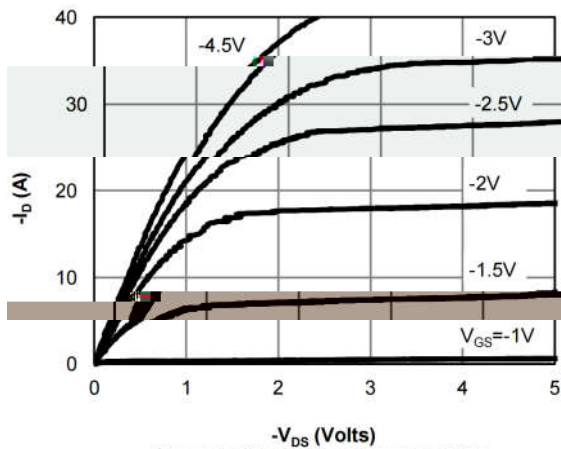


Figure 1: On-Region Characteristics

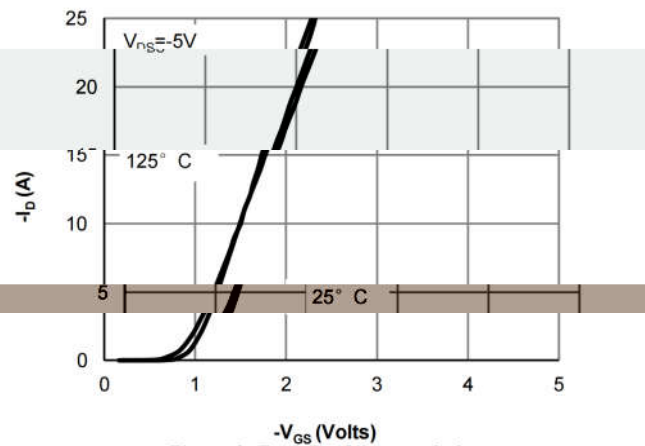


Figure 2: Transfer Characteristics

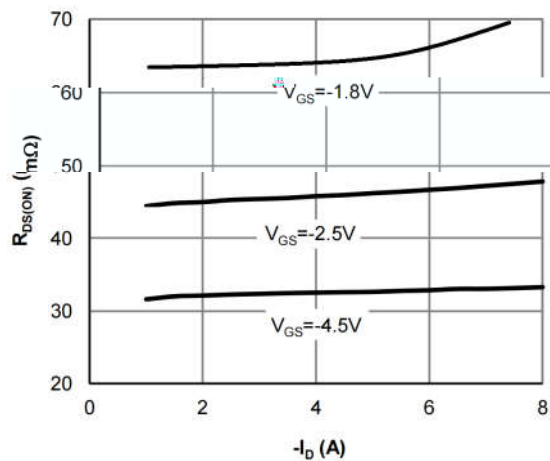


Figure 3: On-Resistance vs. Drain Current and Gate Voltage

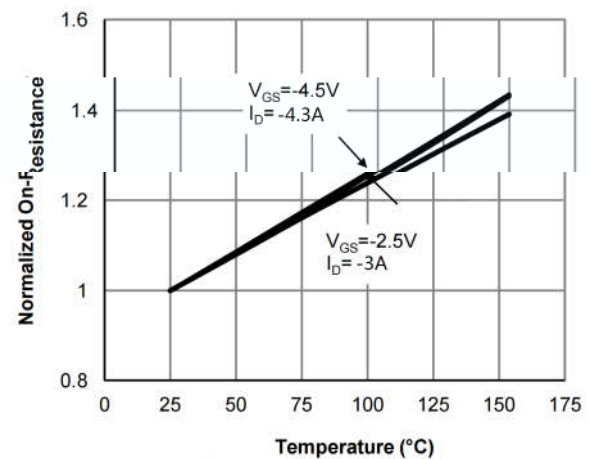


Figure 4: On-Resistance vs. Junction Temperature

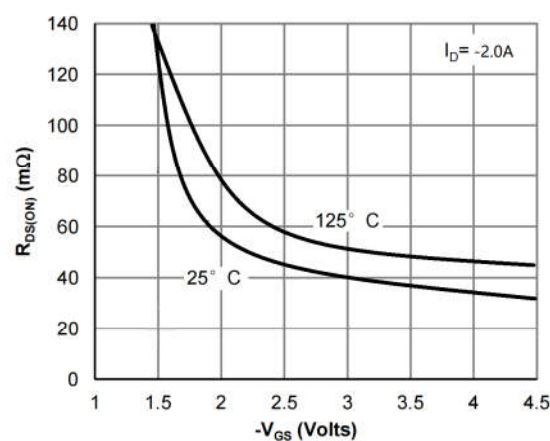


Figure 5: On-Resistance vs. Gate-Source Voltage

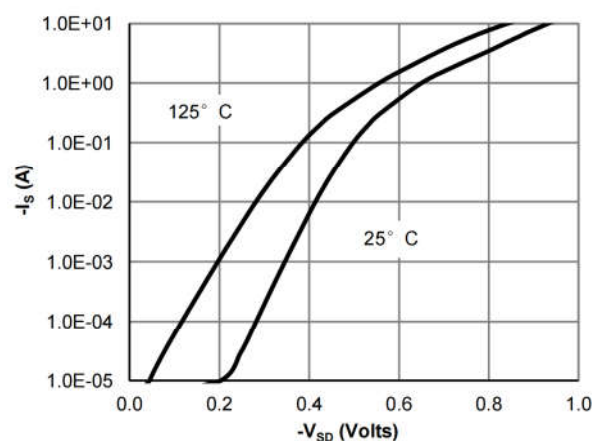
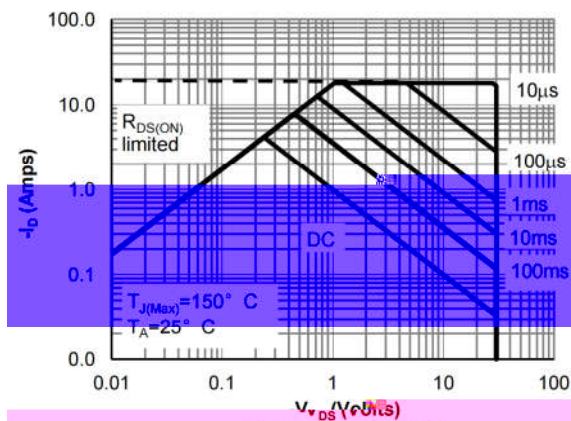
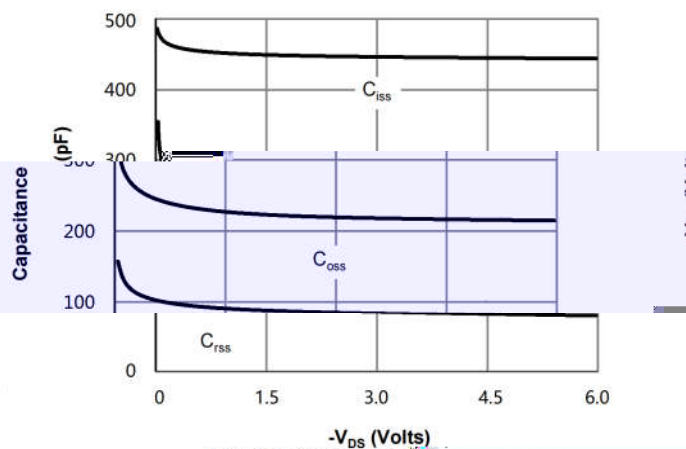
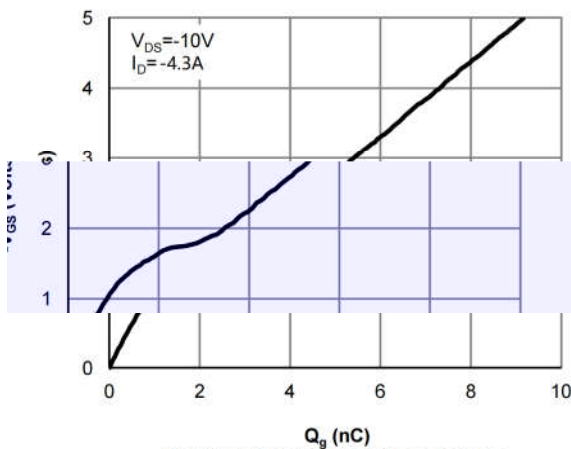
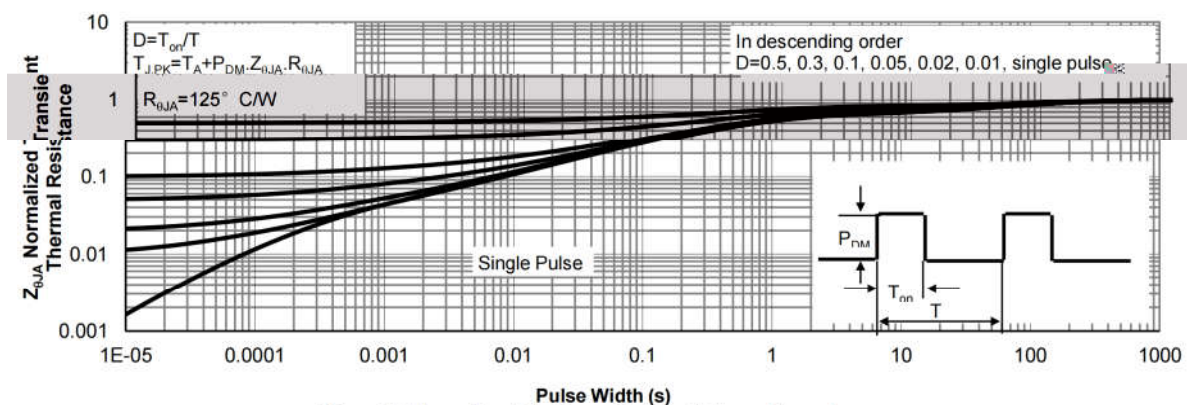


Figure 6: Body-Diode Characteristics

/ Electrical Characteristic Curve



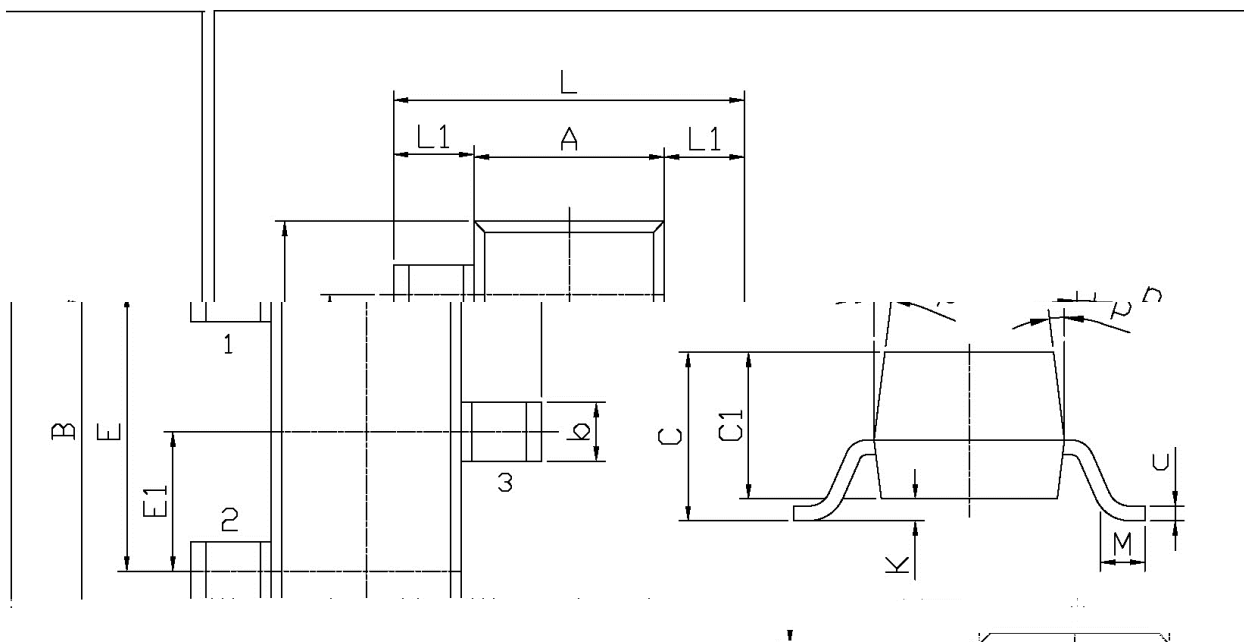
$V_{GS} > \text{or equal to } -1.8V$
Figure 9: Maximum Forward Biased
Safe Operating Area



/ Package Dimensions

SOPT-23

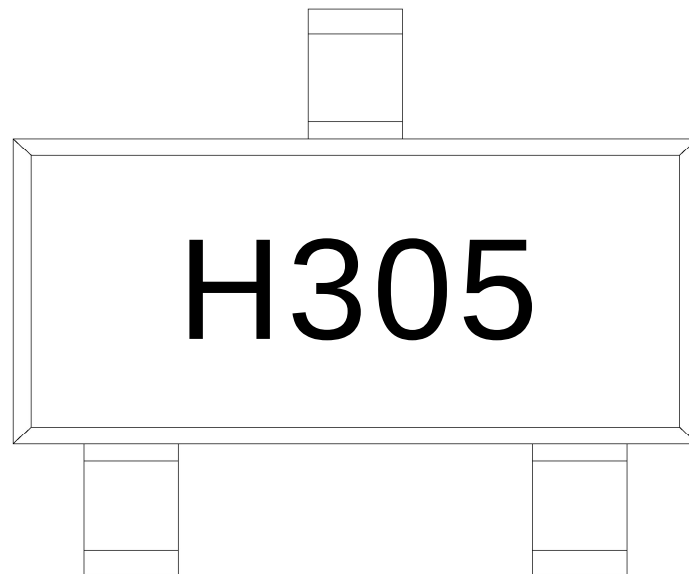
单位: mm



Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters	
	Min	Max		Min	Max
C	1.30	Max	C1	0.90	1.20
c	0.05	0.20	A	1.15	1.30
s	0	0.10	E	0.70	0.80
5	0.55		U	0	0.30

/ Marking Instructions

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H:

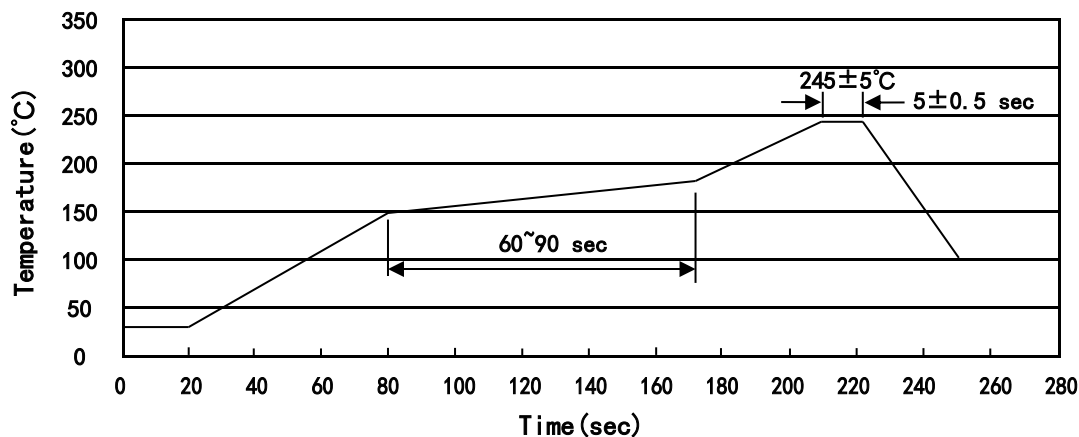
305:

Note:

H: Company Code.

305 Product Type

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Note:

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

/ Resistance to Soldering Heat Test Conditions

260 5 10 1 sec. Temp.:260 5 Time:10 1 sec

/ Packaging SPEC.

/ 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
SOT-23	3,000	10	30,000	6	180,000	7" ×8	180×120×180	390×385×205

/ Notices