

/ Descriptions

SOT23-3 P MOS

P- CHANNEL MOSFET in a SOT23-3 Plastic Package.

/ Features

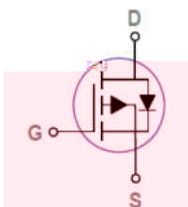
MOSFET

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

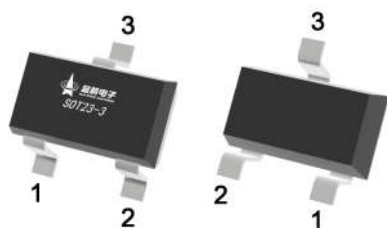
/ Applications

Primarily the display screen drive applications, Load Switch.

/ Equivalent Circuit



/ Pinning



PIN1 G

PIN 2 S

PIN 3 D

/ Marking

Marking

H305

BRCS2305MC

Rev.C Jun.-2022

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

Sd(on)

/ Electrical Characteristic Curve

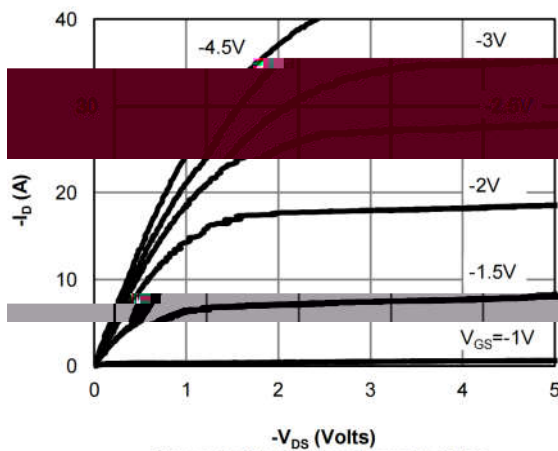


Figure 1: On-Region Characteristics

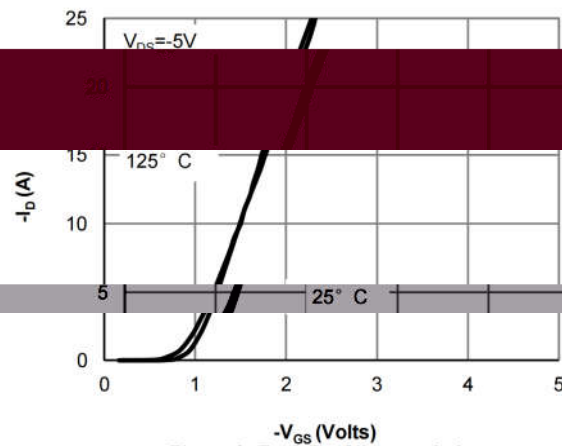


Figure 2: Transfer Characteristics

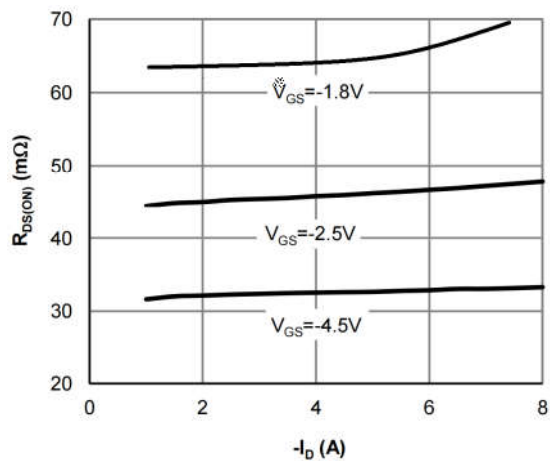


Figure 3: On-Resistance vs. Drain Current and Gate Voltage

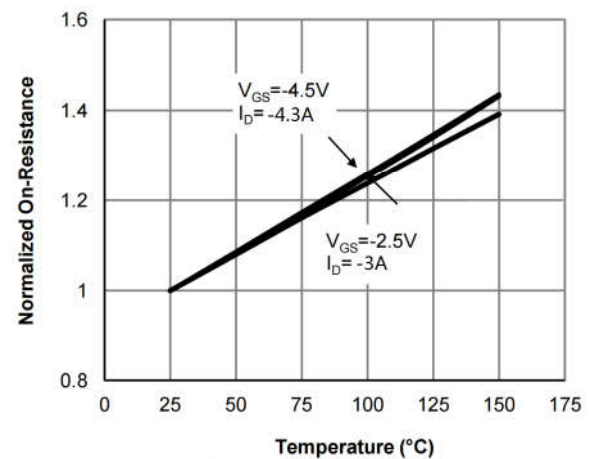


Figure 4: On-Resistance vs. Junction Temperature

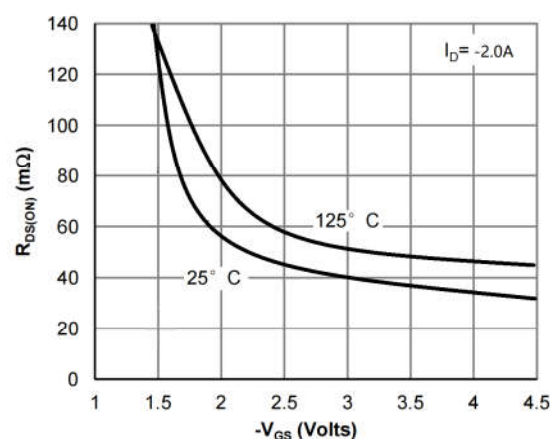


Figure 5: On-Resistance vs. Gate-Source Voltage

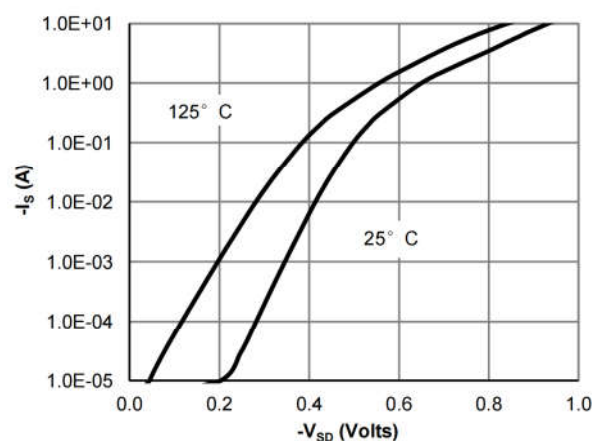
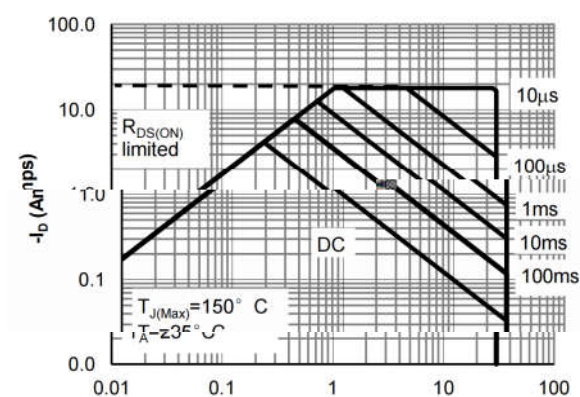
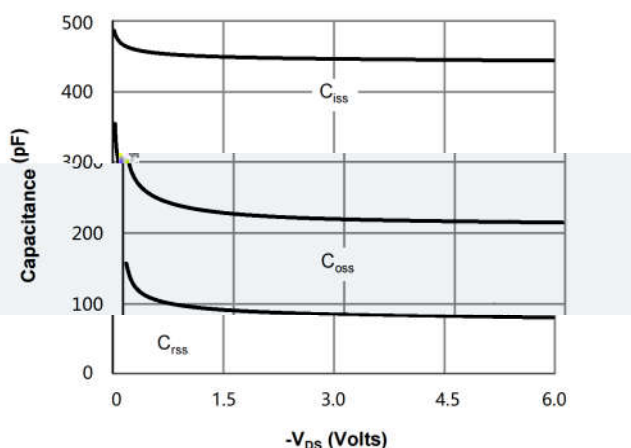
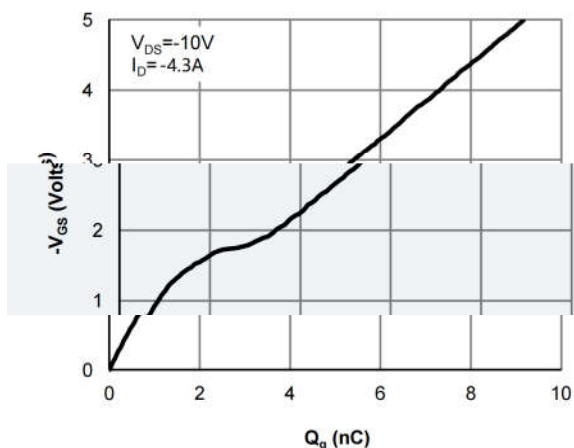
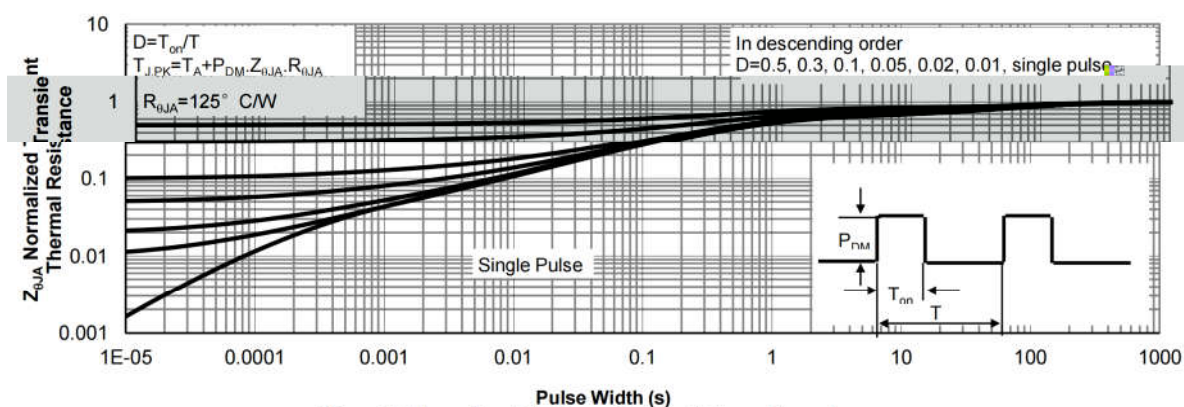


Figure 6: Body-Diode Characteristics

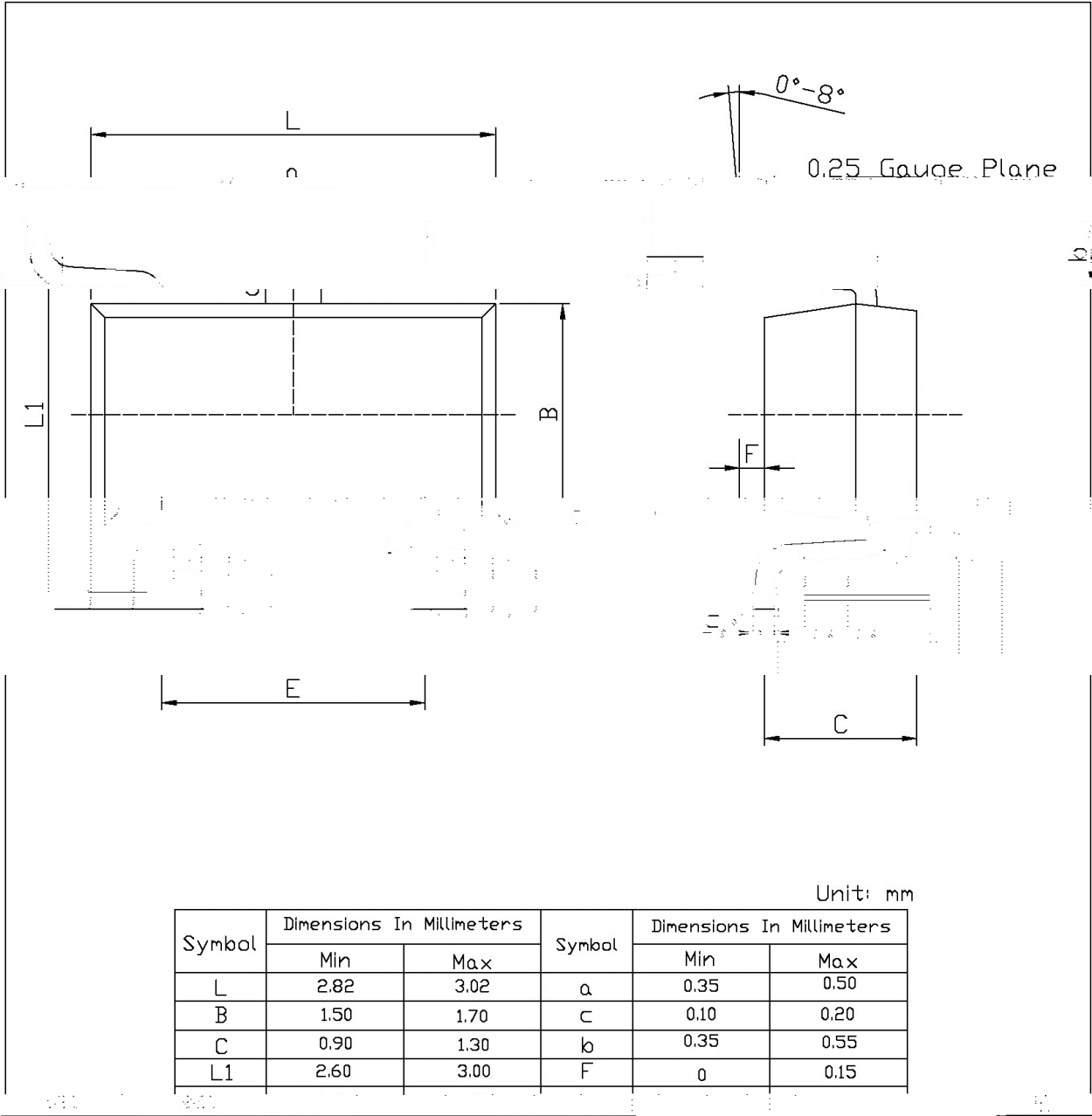
/ Electrical Characteristic Curve



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

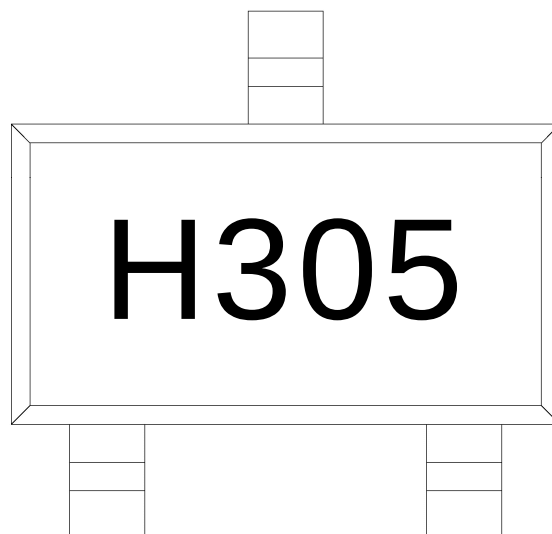


/ Package Dimensions



SOT23-3

/ Marking Instructions



H:

305:

Note:

H: Company Code.

305 Product Type

BRCS2305MC

Rev.C Jun.-2022

DATA SHEET