

/ Descriptions

SOT23-3 S MOS

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

/ Features

$V_{DS}(V) = -20V$ $I_D = -5.0A (V_{GS} = \pm 10V)$

$R_{DS(ON)} < 40\text{ m}\Omega, V_{GS} = -4.5V$

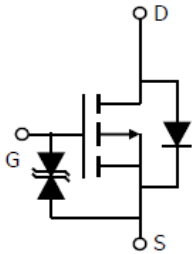
$R_{DS(ON)} < 53\text{ m}\Omega, V_{GS} = -2.5V$

HF Product.

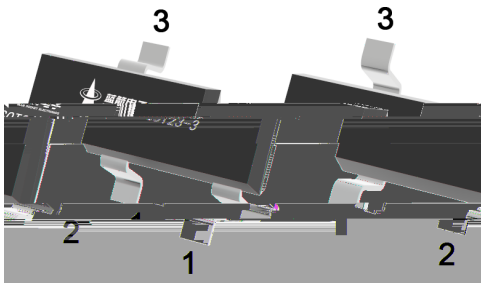
/ Applications

Load switch Battery protection.

/ Equivalent Circuit



/ Pinning



PIN1 G

PIN 2 S

PIN 3 D

/ Marking

Marking

AFH

BRCS3415MC

Rev.B .Dec.-2024



蓝箭电子
BLUE ROCKET ELECTRONICS

DATA SHEET

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	-20	V
Gate-Source Voltage	V_{GS}	± 10	V
Drain Current-Continuous	I_D	-5.0	A
Drain Current-Pulsed	I_{DM}		



/ Electrical Characteristic Curve

/ Electrical Characteristic Curve

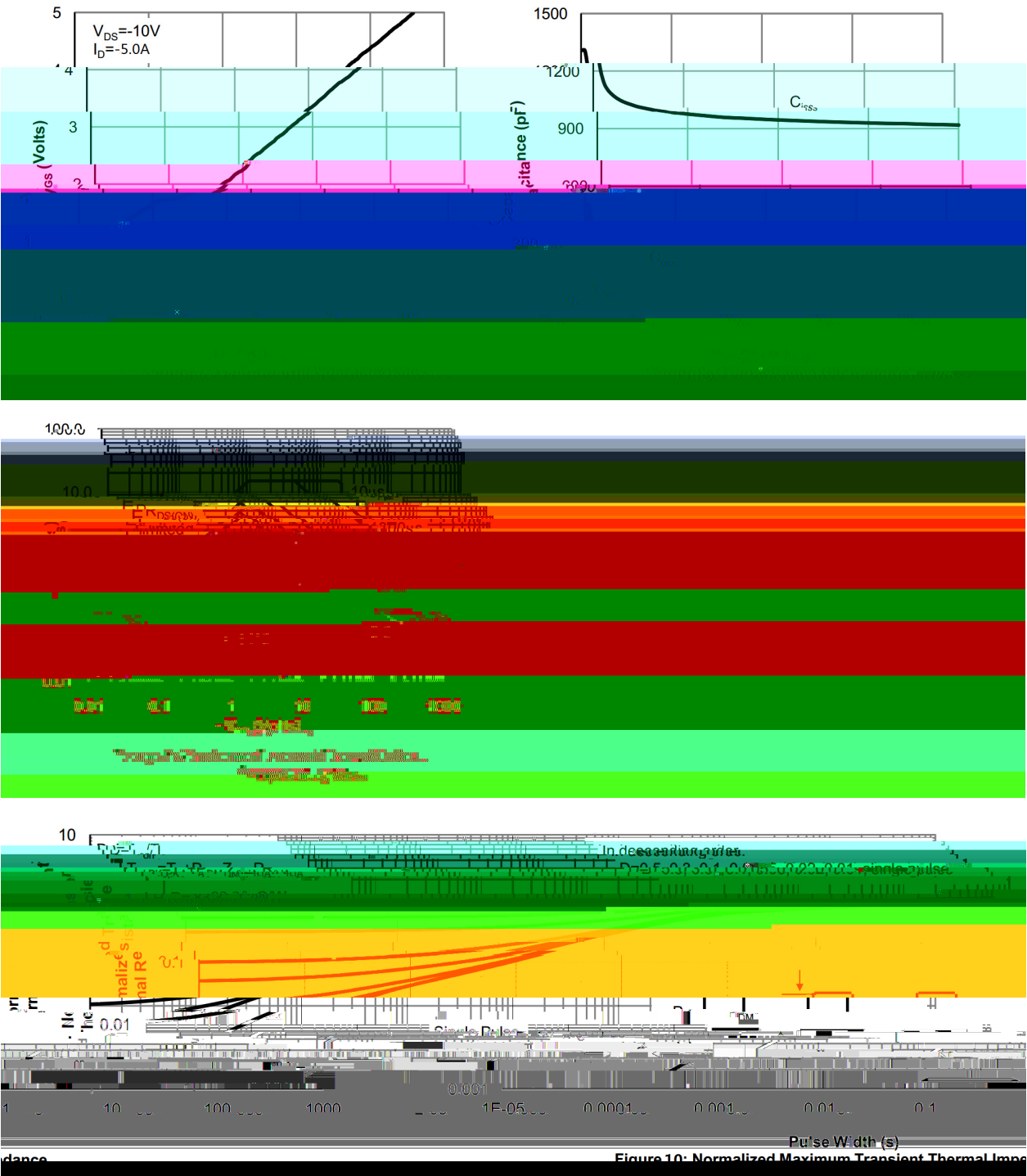
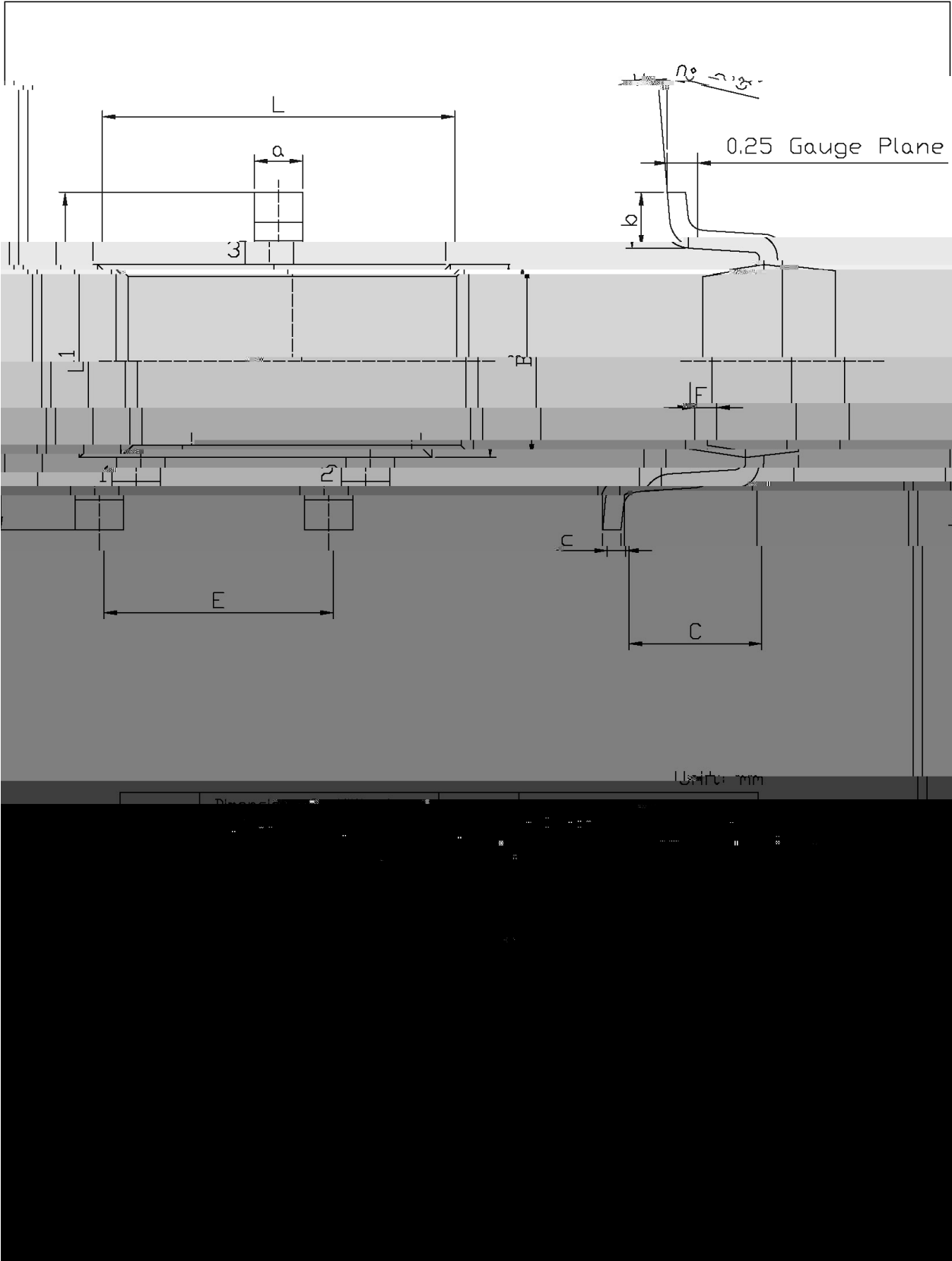
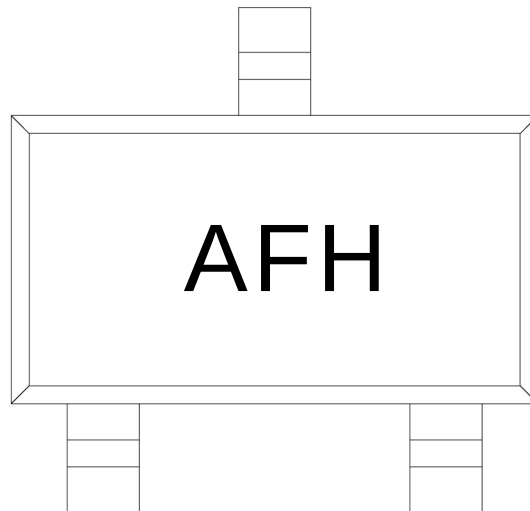


Figure 10: Normalized Maximum Transient Thermal Imp

/ Package Dimensions



/ Marking Instructions



H:

AF:

Note:

H: Company Code

AF Product Type Code

() / Temperature Profile for IR Reflow Soldering(Pb-Free)

- 1

150 180%

60 90sec;
- 2

245[±]5%

5[±]0.5sec;
- 3

2 10%/sec.
- Note:
1.Preheating:150~180%, Time:60~90sec.
2.Peak Temp.:245[±]5%, Duration:5[±]0.5sec.
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	Units	Dimension	(unit mm)
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