

/ Descriptions

SOT-23 N MOS

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

/ Features

 $V_{DS}(V) = 20V$ $I_D = 3A$ $R_{DS(ON)}@4.5V \leq 60m\Omega$ (Type.35m Ω) $R_{DS(ON)}@2.5V \leq 115m\Omega$ (Type.45m Ω)

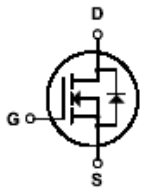
HF Product.

/ Applications

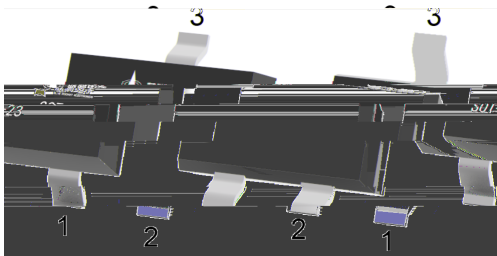
DC-DC

Battery management,High speed switch,low power DC to DC converter.

/ Equivalent Circuit



/ Pinning



PIN1 G

PIN 2 S

PIN 3 D

/ Marking

Marking

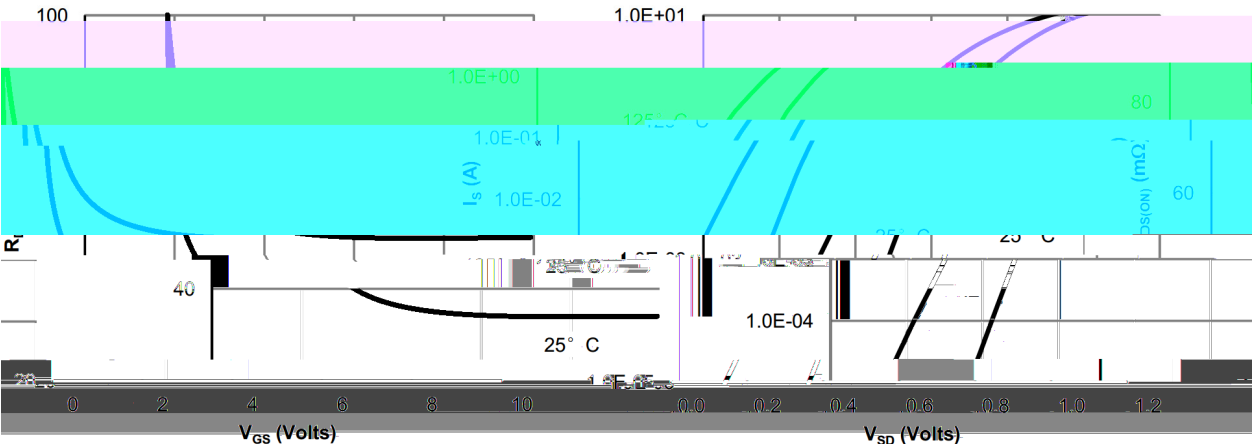
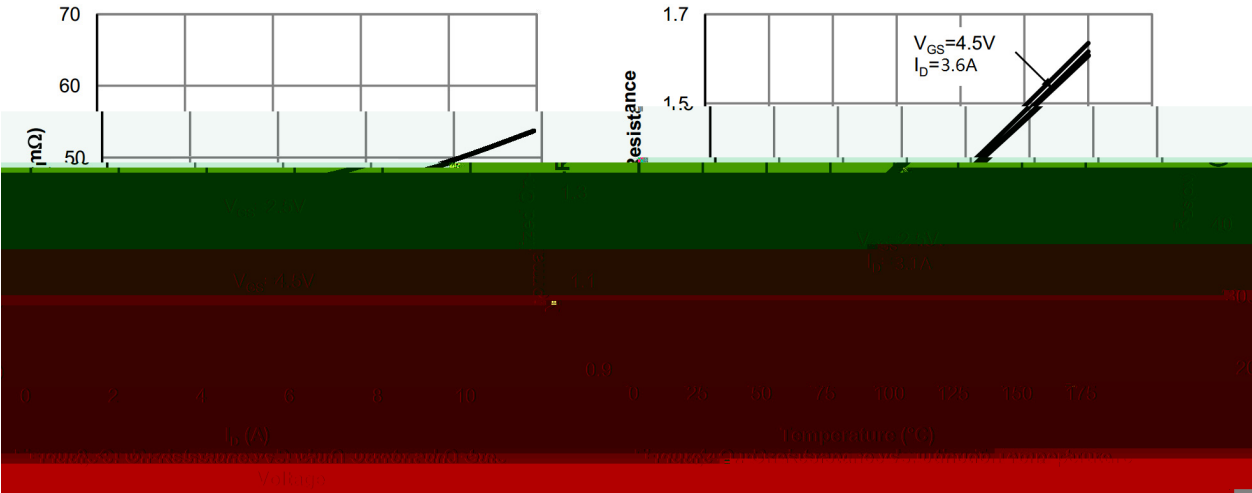
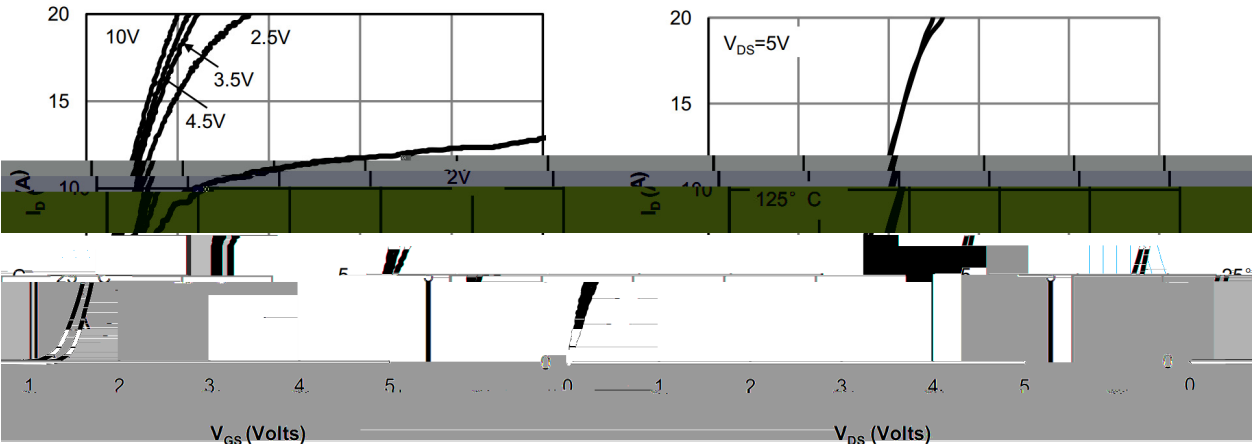
A2H

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	20	V
Gate-Source Voltage	V_{GS}	±12	V
Drain Current – Continuous	I_D	3.0	A
Pulsed Drain Current	I_{DM}	13.5	A
Power Dissipation	P_D	0.9	W
Storage Temperature Range	T_{stg}	-55 150	
Thermal Resistance-Junction to Ambient	$R_{\theta JA}$	139	/W

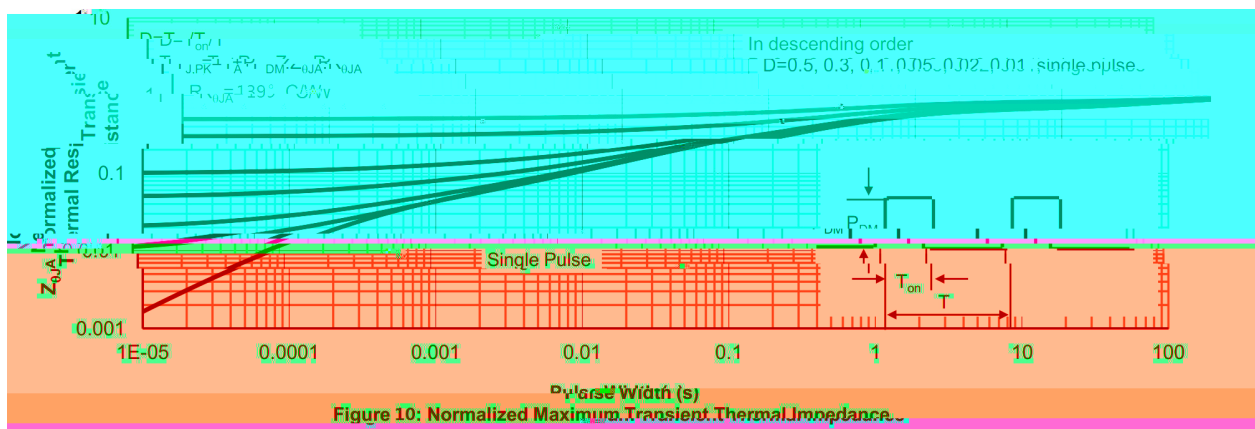
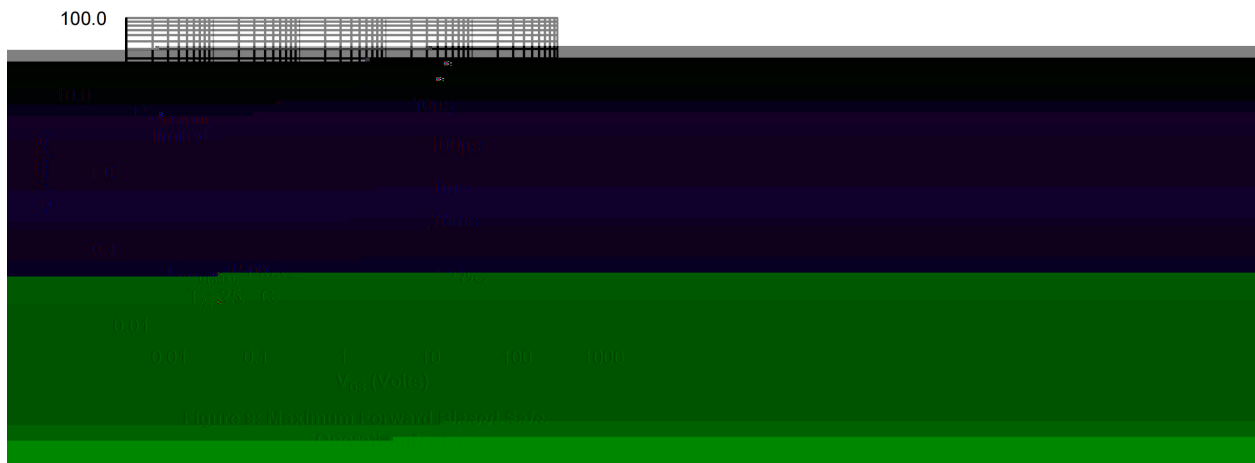
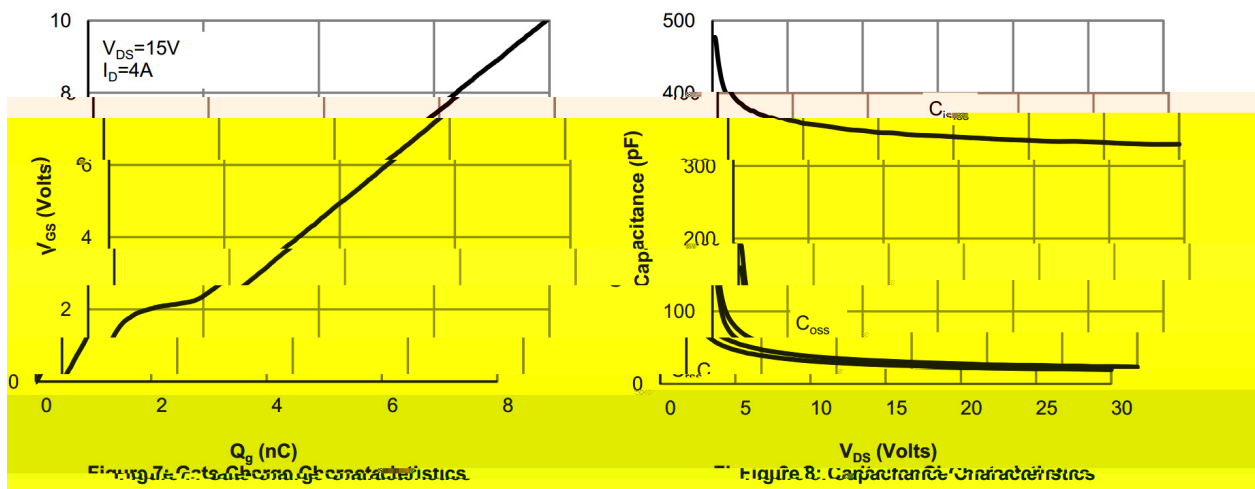
Parameter	Symbol	Test Conditions		Min	Typ	Max	Unit
Drain–Source Breakdown Voltage	BV_{DSS}	$V_{GS}=0$	$I_D=250\mu A$	20	21		V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{GS}=0$	$V_{DS}=20V$			1.0	μA
Gate–Body Leakage.	I_{GSS}	$V_{GS}=\pm 12V$	$V_{DS}=0V$			± 100	nA
Static Drain–Source On–Resistance	$R_{DS(on)1}$	$V_{GS}=4.5V$	$I_D=3.6A$		35	60	$m\Omega$
	$R_{DS(on)2}$	$V_{GS}=2.5V$	$I_D=3.1A$		45	115	$m\Omega$
Drain–Source Diode Forward Voltage	V_{SD}	$V_{GS}=0V$	$I_D=1.25A$			1.2	V
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}$	$I_D=250\mu A$	0.5	0.6	1.0	V

Input Capacitance GS26-1532M67L15P@2 p 0R2x0R5V3p.Upr@RI@0000X05Y00(2xH0S1C7xH0(30(40(40

Electrical Characteristic Curve



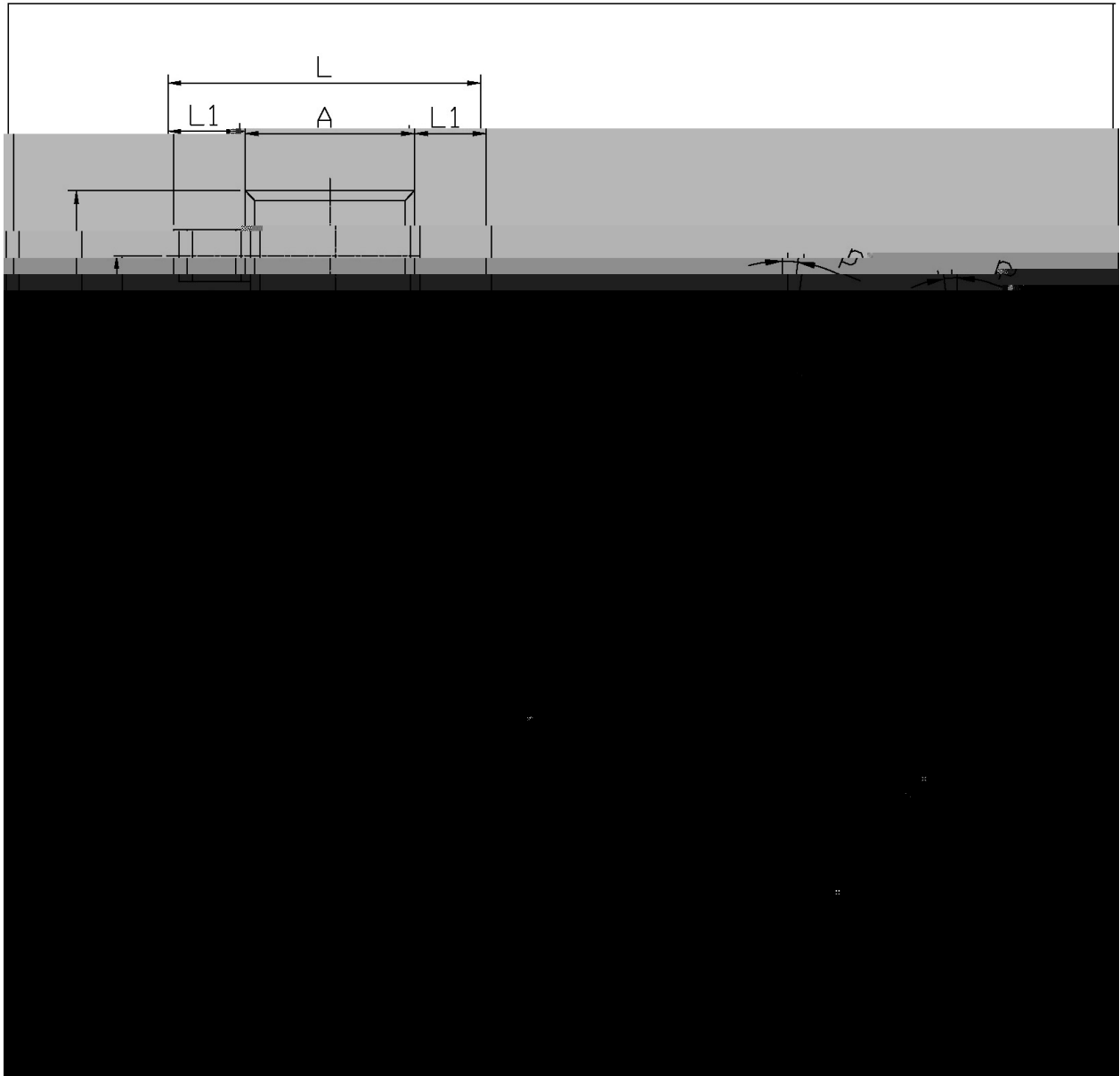
/ Electrical Characteristic Curve



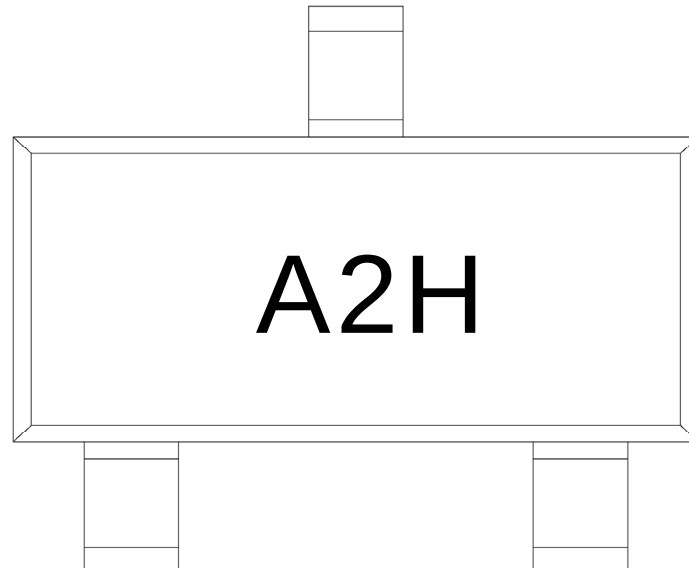
/ Package Dimensions

SOT-23

单位: mm



/ Marking Instructions



A2:

H:

Note:

A2 Product Type Code

H: Company Code

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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	Units/Reel /	Reels/Inner Box /	Units	Dimension (unit mm ³)
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