/ Revised record

A	2019-4-18	ALL	AO3400		
B	2020-5-28	1			

/ Descriptions

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

/ Features

V_{DS} (V) = 30V

I_D = 5.8 A (V_{GS} = 10V)

$R_{DS(ON)}$ < 28mΩ (V_{GS} = 10V)

$R_{DS(ON)}$ < 33mΩ (V_{GS} = 4.5V)

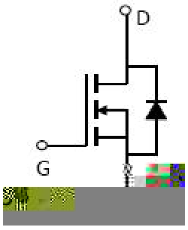
$R_{DS(ON)}$ < 52mΩ (V_{GS} = 2.5V)

无卤产品。HF Product.

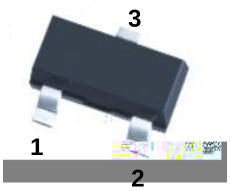
/ Applications

This device is suitable for use as a load switch or in PWM applications.

/ Equivalent Circuit



/ Pinning



PIN1 G PIN 2 S PIN 3 D

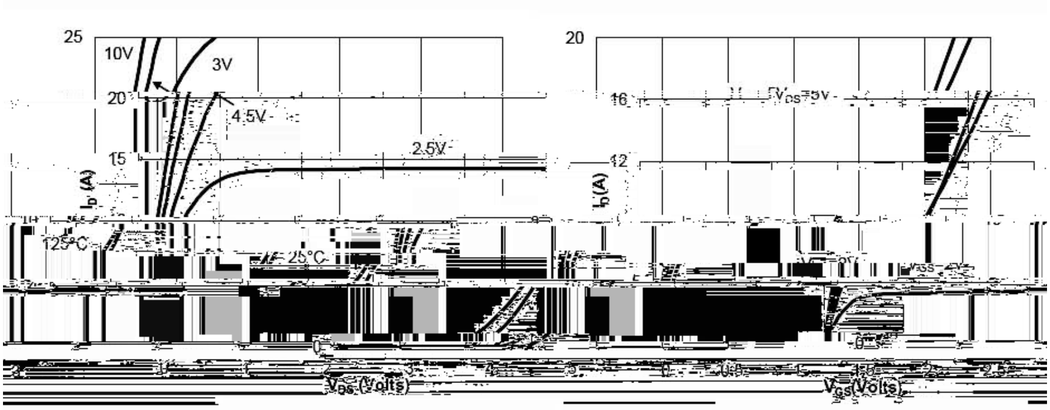
/ Marking

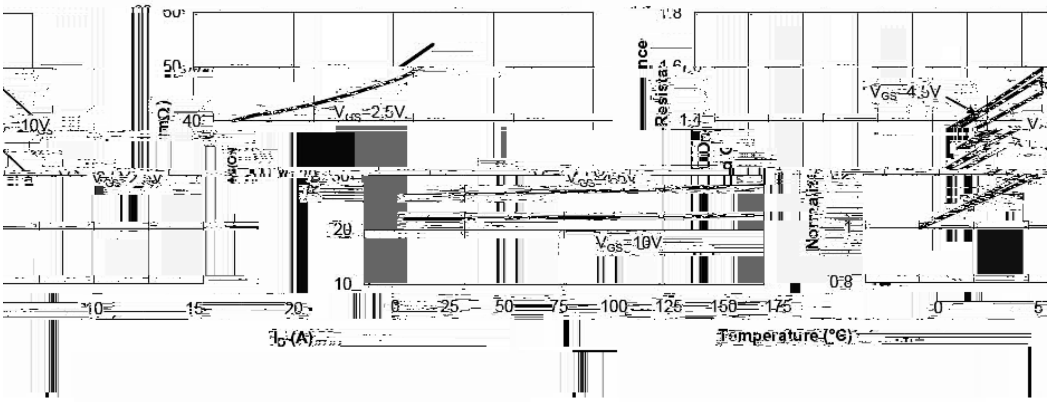
Marking	A0H

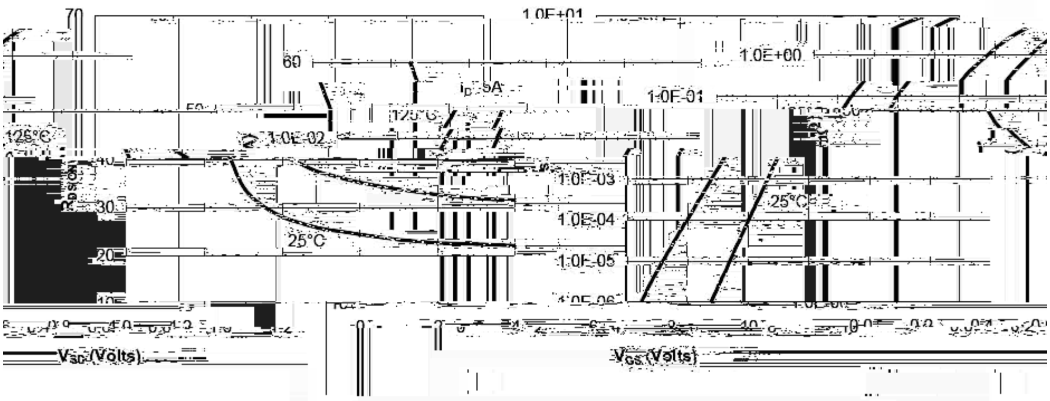
/ Electrical Characteristics(Ta=25)

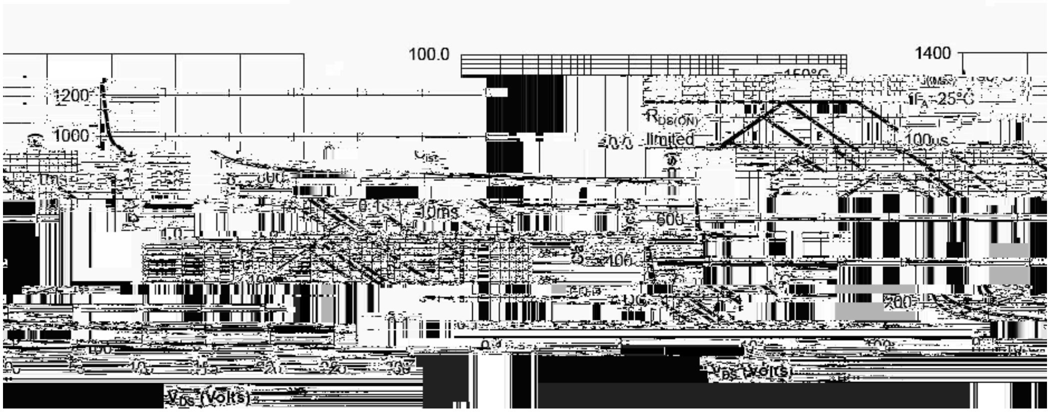
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Input Capacitance	C_{iss}	V_{DS}=15V V_{GS}=0V f=1MHz		823	1030	pF
Output Capacitance	C_{oss}			99		
Reverse Transfer Capacitance	C_{rss}			77		
Gate resistance	R_g	V_{GS}=0V V_{DS}=0V, f=1MHz		1.2	3.6	Ω
Total Gate Charge	Q_g	V_{GS}=4.5V, V_{DS}=15V, I_D=5.8A		9.7	12	nC
Gate Source Charge	Q_{gs}			1.6		
Gate Drain Charge	Q_{gd}			3.1		
Turn–On Delay Time	$t_{d(on)}$	V_{GS}=10V R_L=2.7Ω V_{DS}=15V R_{GEN}=3Ω		3.3	5	ns
Turn–On Rise Time	t_r			4.8	7	
Turn–Off Delay Time	$t_{d(off)}$			26.3	40	
Turn–Off Fall Time	t_f			4.1	6	
Body Diode Reverse Recovery Time	t_{rr}	I_F=5A dI/dt=100A/μs		16	20	ns
Body Diode Reverse Recovery Charge	Q_{rr}	I_F=5A dI/dt=100A/μs		8.9	12	nC

/ Electrical Characteristic Curve

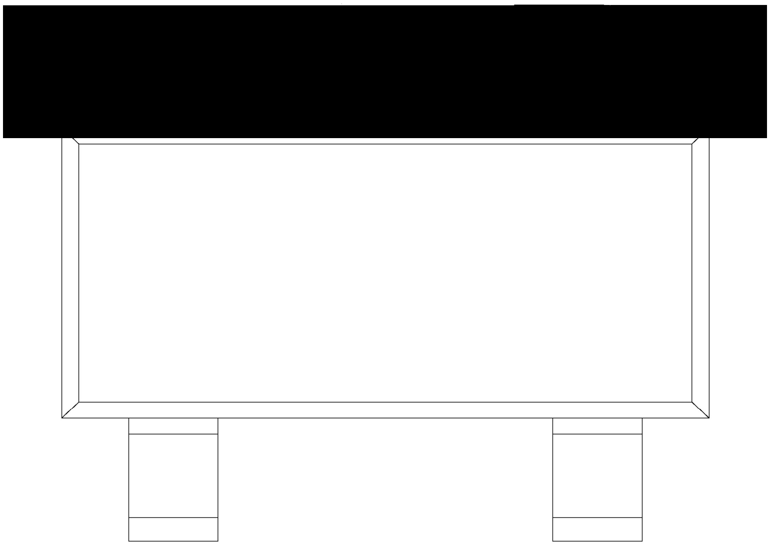








/ Marking Instructions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Note:

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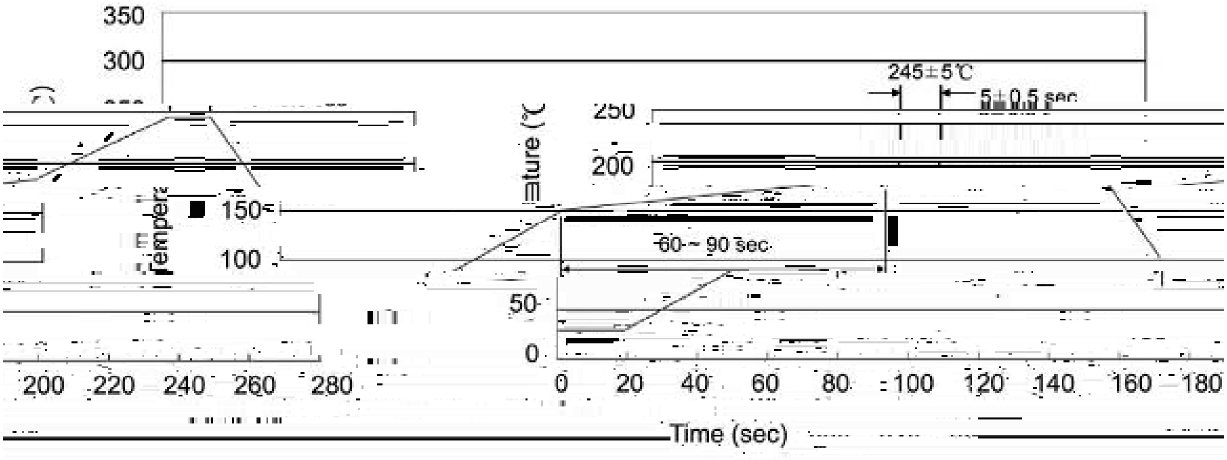
( ) / Temperature Profile for IR Reflow Soldering(Pb-Free)



	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
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