

/ Descriptions

SOT-523 N MOS
N-CHANNEL MOSFET in a SOT-523 Plastic Package.

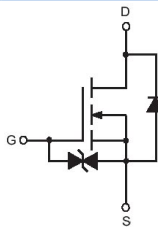
/ Features

Sensitive gate trigger current and Low Holding current.ESD protected up to 2KV,HF Product.

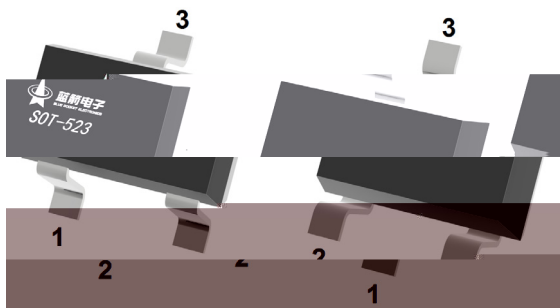
/ Applications

Intended for use in general purpose switching and phase control applications.

/ Equivalent Circuit



/ Pinning



PIN1 G PIN 2 S PIN 3 D

/ Marking

Marking	K72
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Electrical Characteristic Curve

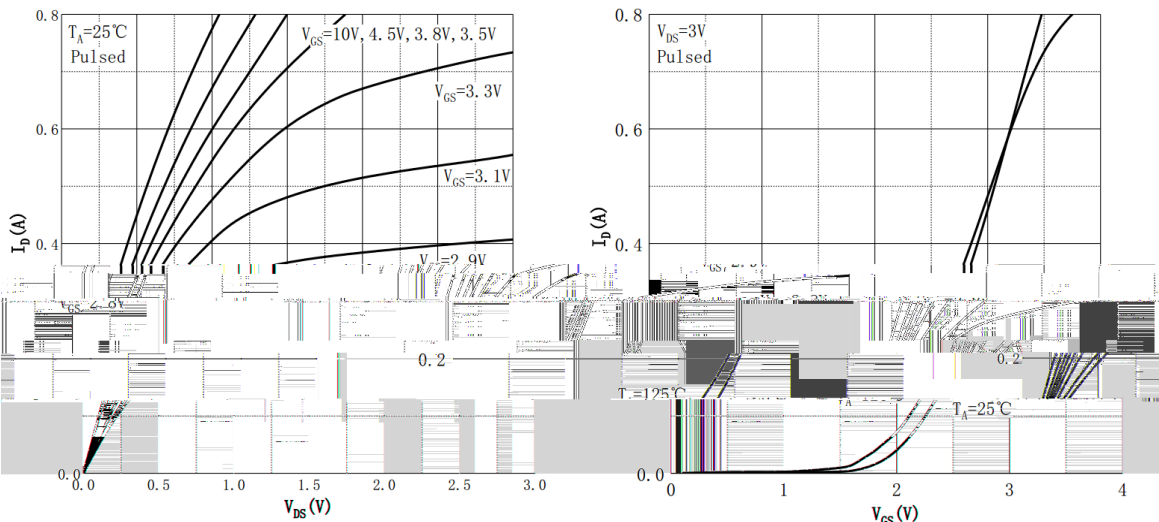


Figure.1 Output Characteristics

Figure.2 Transfer Characteristics

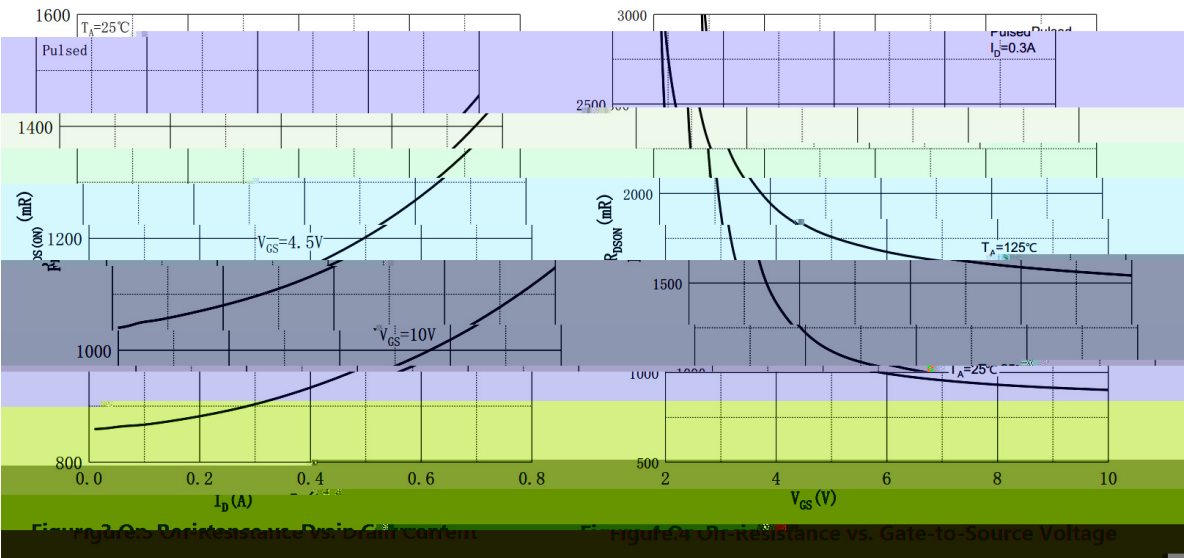


Figure.3 On-Resistance vs. Drain Current

Figure.4 On-Resistance vs. Gate-to-Source Voltage

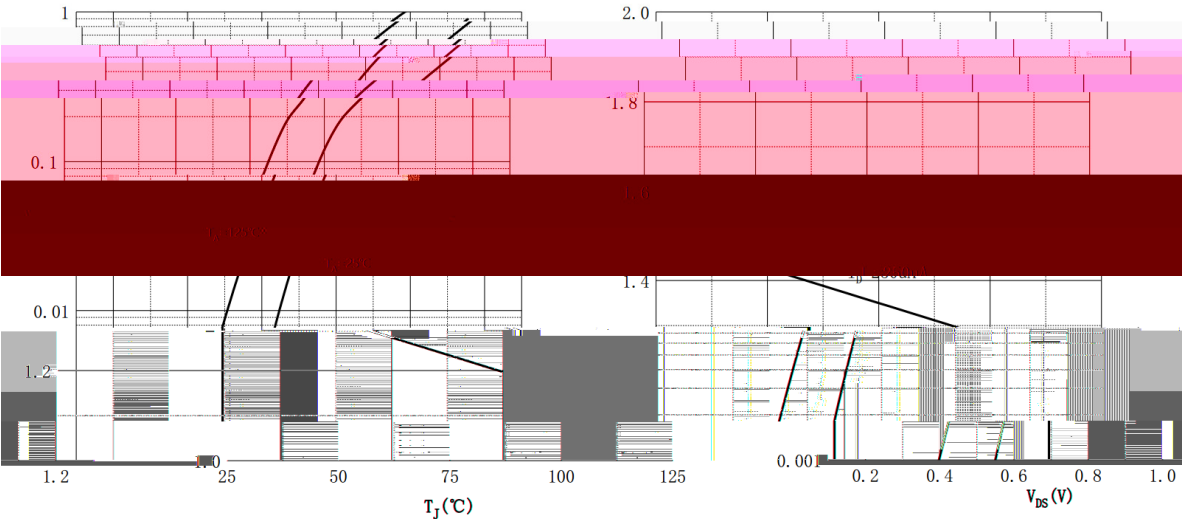
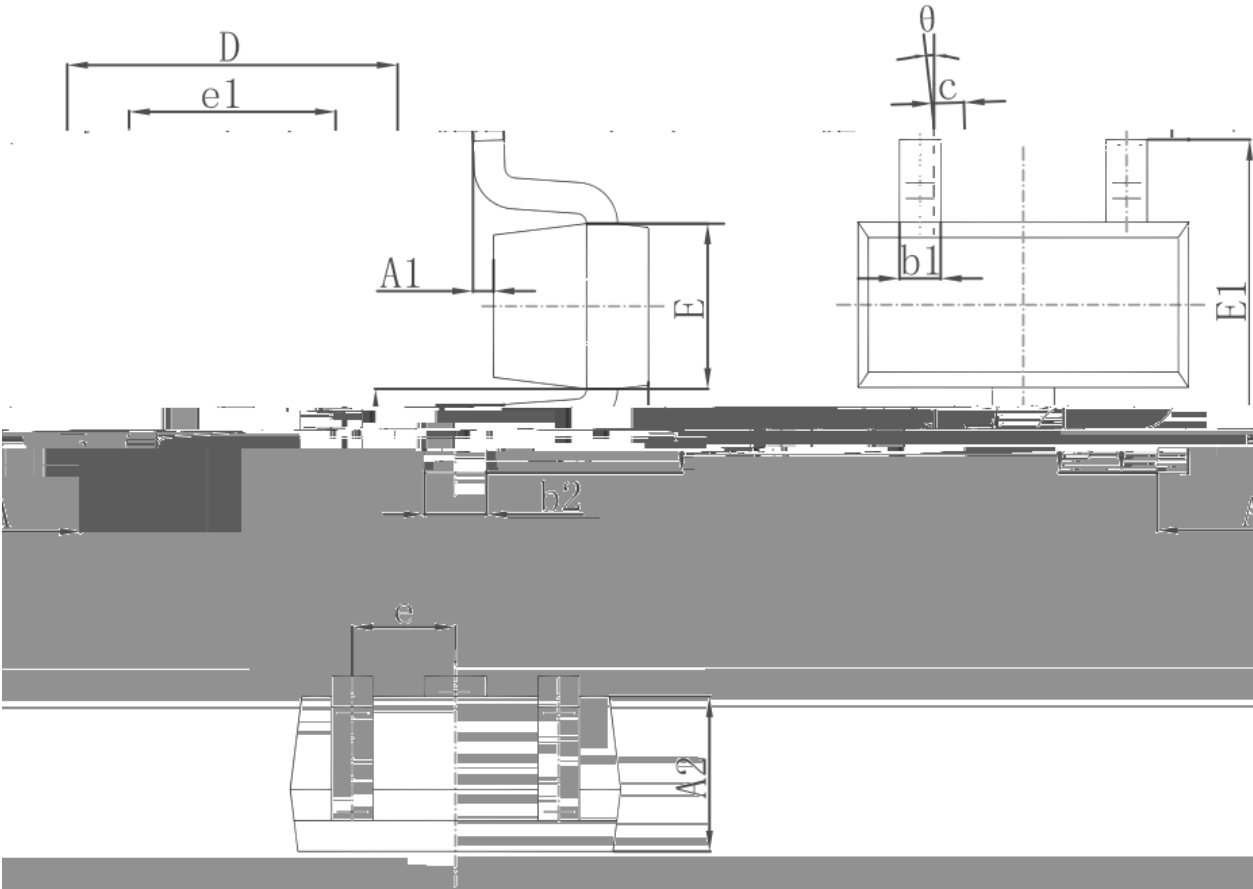


Figure.5 Threshold Voltage vs. Temperature

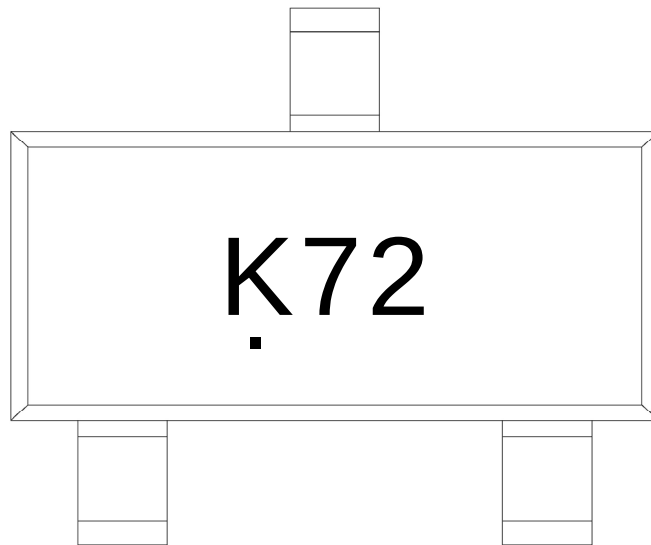
Figure.6 Diode Forward Voltage vs. Drain-Source Voltage

/ Package Dimensions



	Symbol	Dimensions In Millimeters		Dimensions In Inches	
		Min.	Max.	Min.	Max.
	A	0.700	0.900	0.028	0.035
	A1	0.000	0.100	0.000	0.004
	A2	0.700	0.800	0.028	0.031
	b1	0.150	0.250	0.006	0.010
	b2	0.250	0.350	0.010	0.014
	c	0.200	0.200	0.008	0.008
	D	1.500	1.700	0.059	0.067
	E1	0.700	0.900	0.028	0.035
	e	0.057	0.069	0.002	0.003
	e1	0.020 TYP.	0.043	0.001	0.002
	L	0.035	0.043	0.001	0.002
	L1	0.016 REF.	0.018	0.001 REF.	0.001
	theta	0°	8°	0°	8°

/ Marking Instructions



K72

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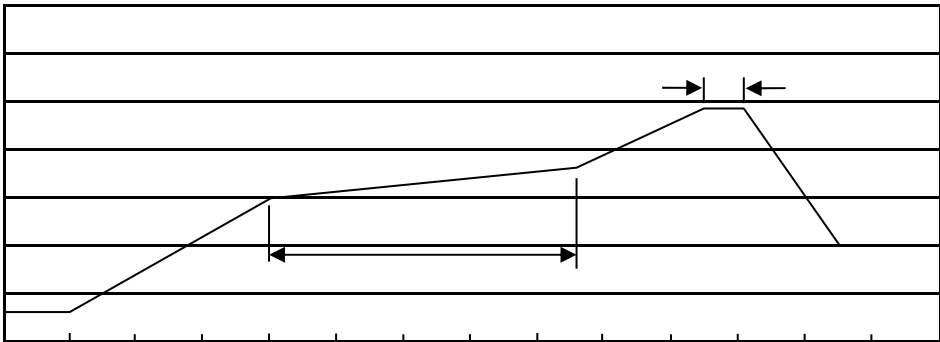
Note:

K72: Product Type Code

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HF Product Code

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



- Note:

1

150 180

60 90sec;

2

245 5

5 0.5sec;

3

2 10 /sec.
- 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 ³)		
SOT-523	3,000	10	30,000	6	180,000	7 ×8	180×120×180	390×385×205

/ Notices