

/ Descriptions

SOT-23 N MOS

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

/ Features

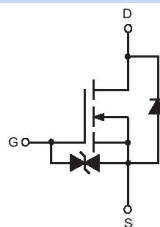
5NV

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

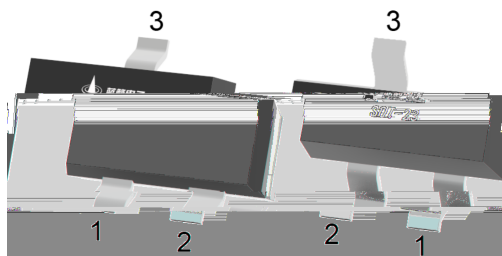
/ Applications

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

/ Equivalent Circuit



/ Pinning



PIN1 G

PIN 2 S

PIN 3 D

/ Marking

Marking	702K2
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Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DSS}	60	V
Drain-Gate Voltage	V_{DGR}	60	V
Drain Current - Continuous	I_D $T_a=25$	300	mA
	I_D $T_a=85$	210	
Drain Current - Pulsed(Note 1)	I_{DM}	1200	mA
Gate-Source Voltage - Continuous	V_{GSS}	± 20	V
Power Dissipation	P_D	350	mW
Junction Temperature Range	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

Maximum Junction-to-Ambient(Note 2)

$R_{\theta JA}$ (Steady State)

57j/TT4 1 Tf48004 ref5e57j/g37B803

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn On Delay Time	$t_{d(ON)}$	VGS =10V, VDD=25V, ID=500mA, RG=25 Ω		6.0		ns
Rise Time	t_r			5.8		
Turn Off Delay Time	$t_{d(OFF)}$			13.2		
Fall Time	t_f			8.9		

/ Electrical Characteristic Curve

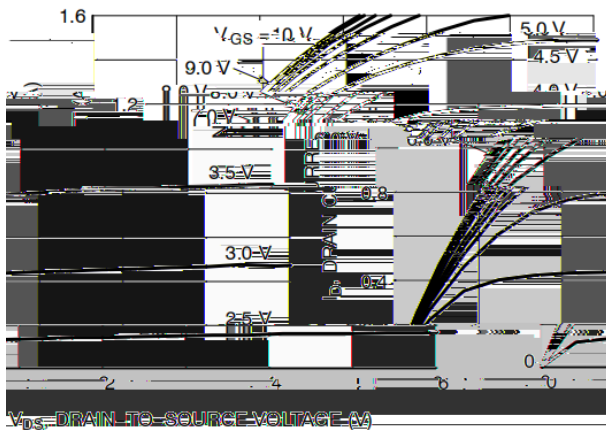


Figure 1. On-Region Characteristics

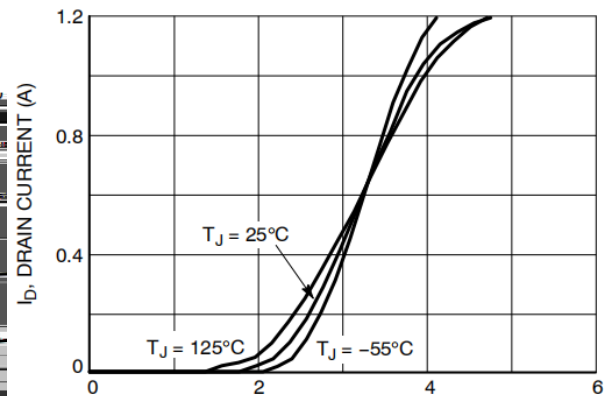


Figure 2. Transfer Characteristics

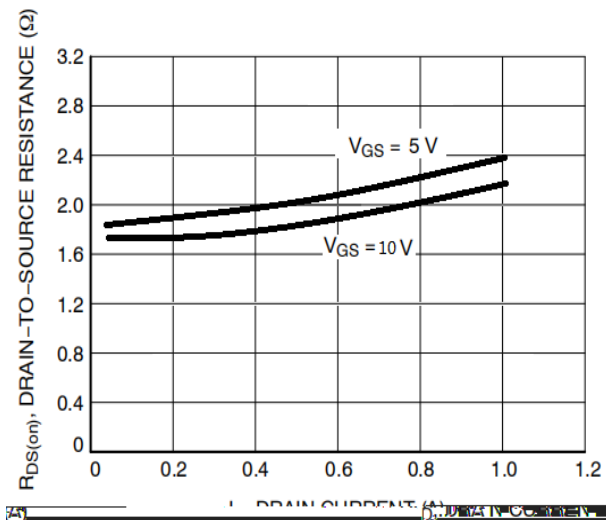


Figure 3. On-Resistance vs. Drain Current and Temperature

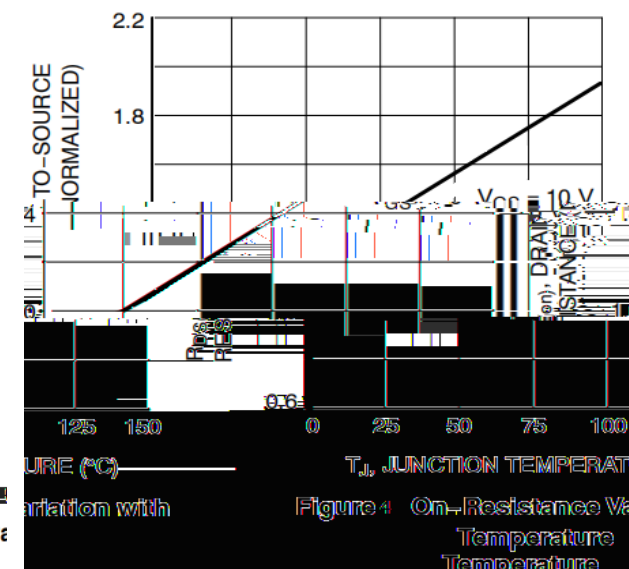


Figure 4. On-Resistance Variation with Temperature

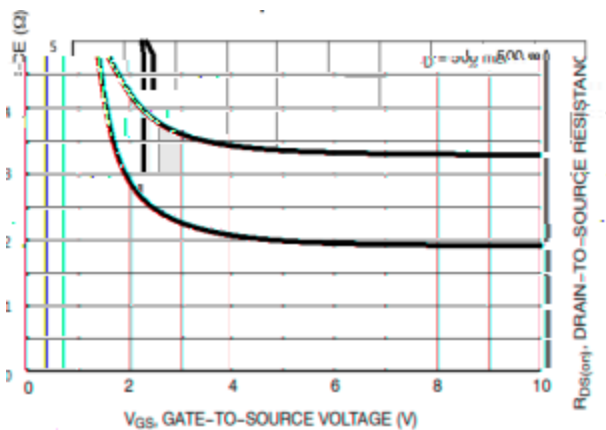


Figure 5. On-Resistance vs. Gate-to-Source Voltage

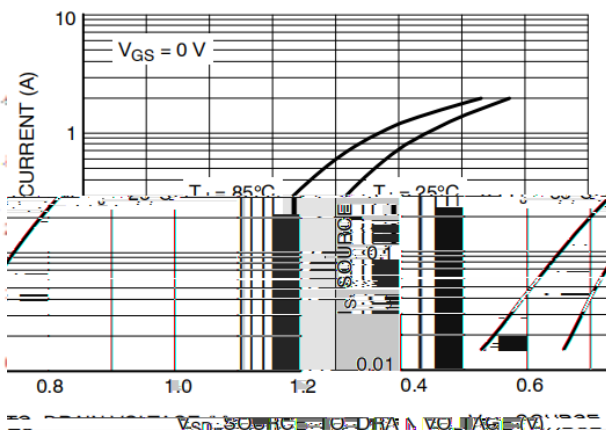


Figure 6. Diode Forward Voltage vs. Current

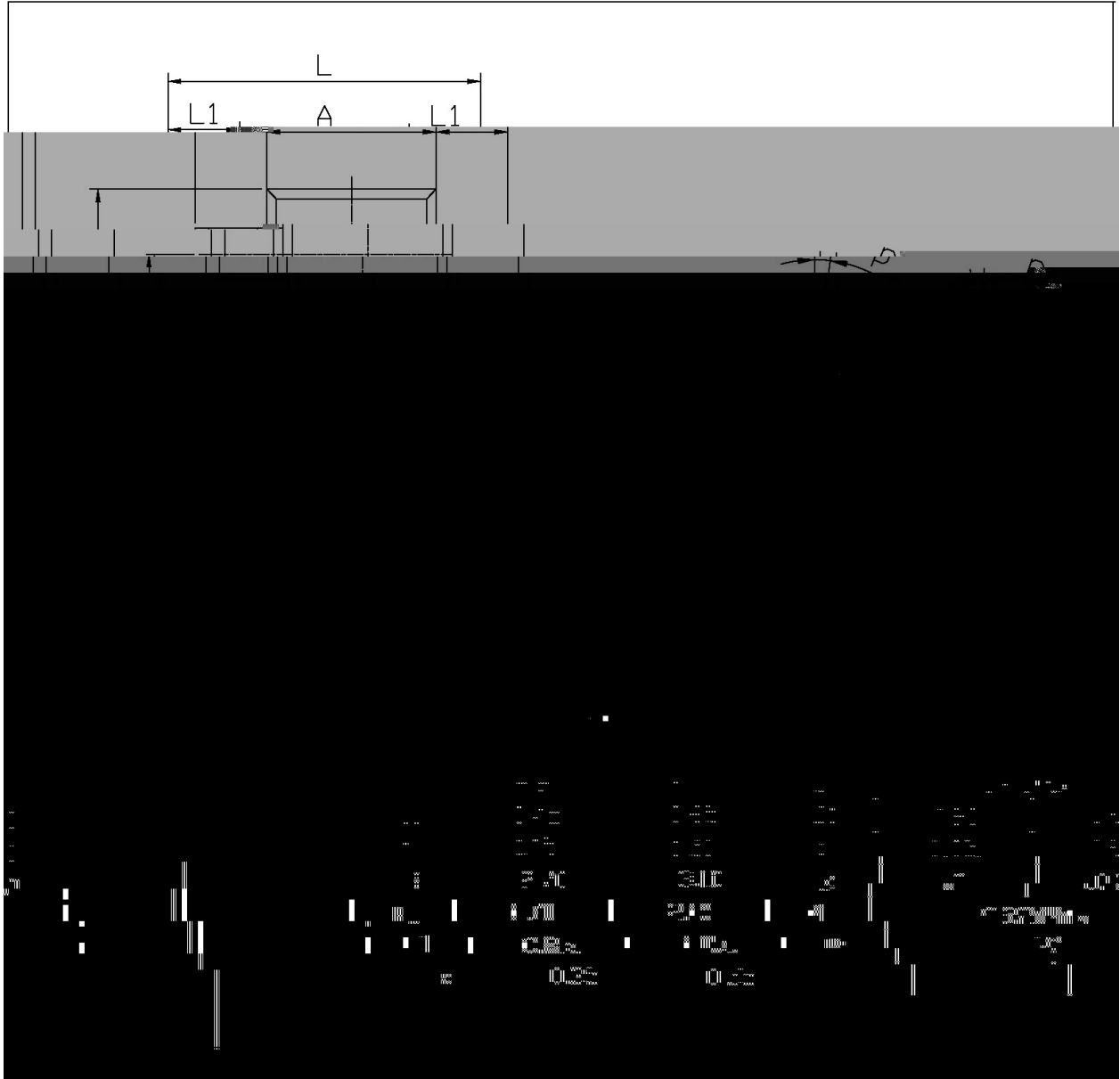


/ Electrical Characteristic Curve

/ Package Dimensions

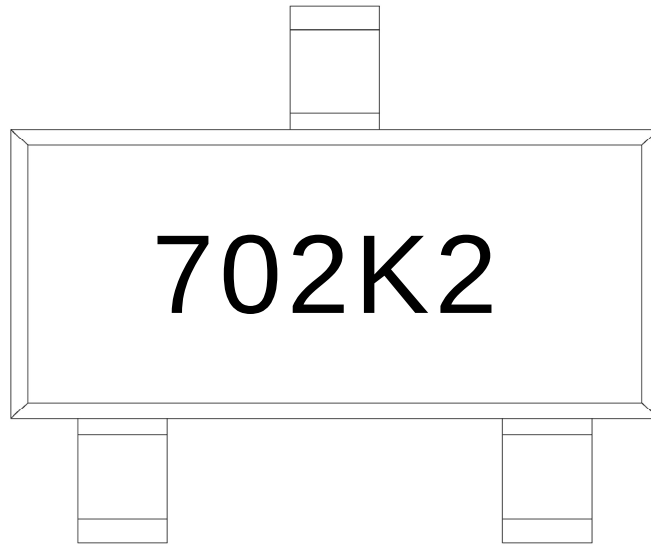
SOT-23

单位: mm





/ Marking Instructions

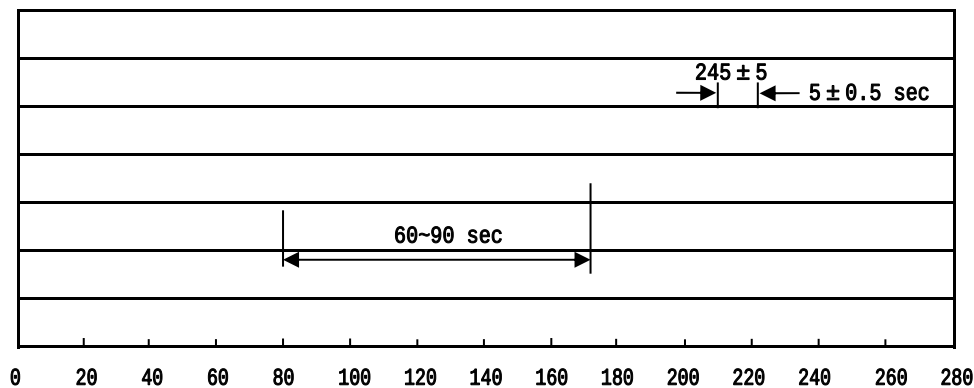


702K2

Note:

702K2: Product Type Code

() / 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	Units					Dimension (unit mm ³)		
SOT-23	3,000	10	30,000	6	180,000	7 ×8	180×120×180	390×385×205

/ Notices