

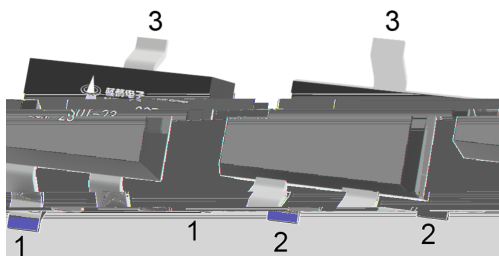
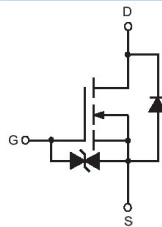
SOT-23 N MOS

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

5NV

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

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



PIN1 G

PIN 2 S

PIN 3 D

Marking	702K2
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Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	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_{GS}	± 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)	$R_{\theta JA}(\text{Steady State})$		$^{\circ}C/W$

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		

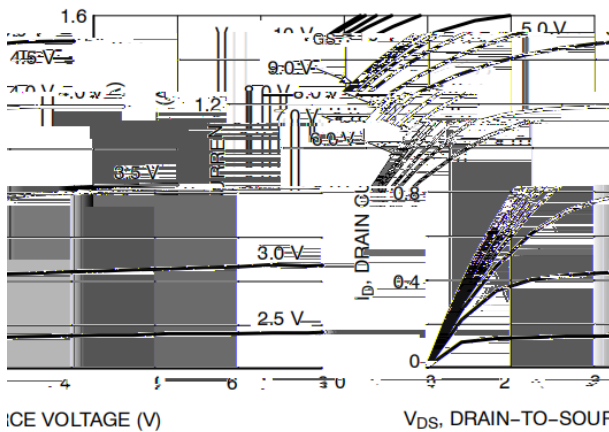


Figure 1. On-Region

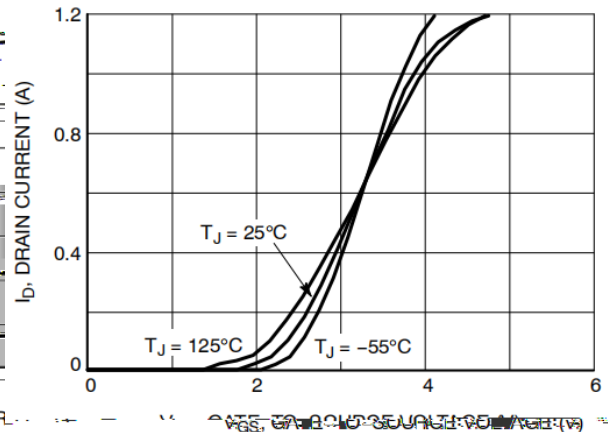
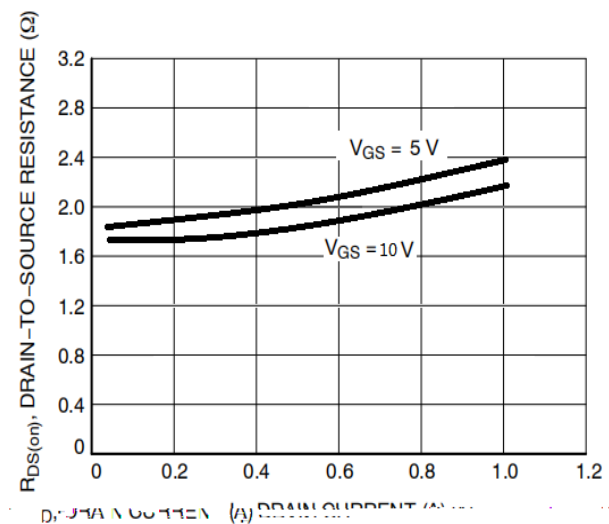
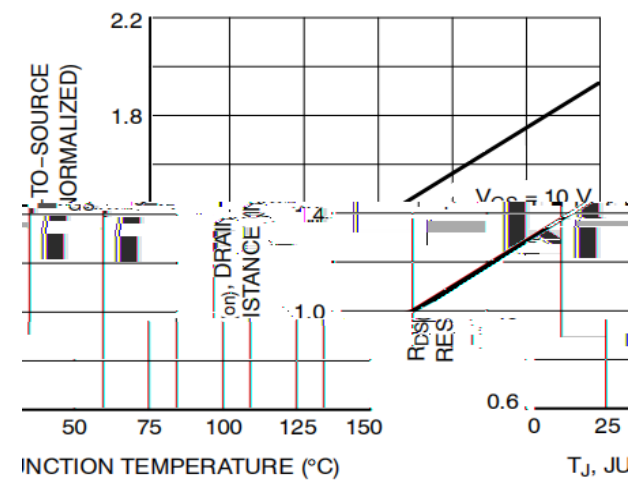


Figure 2. Transfer Characteristics



On-Resistance vs. Drain Current and Temperature

Figure 3.



On-Resistance Variation with Temperature

Figure 4

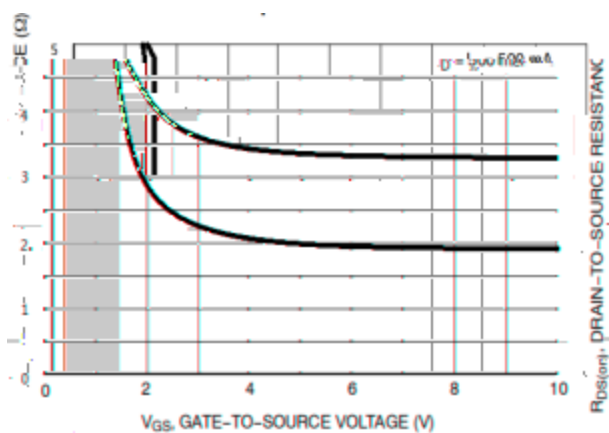


Figure 5. On-Resistance vs. Gate-to-Source

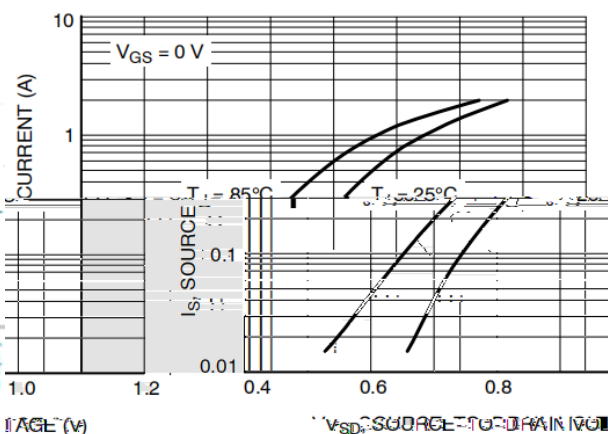
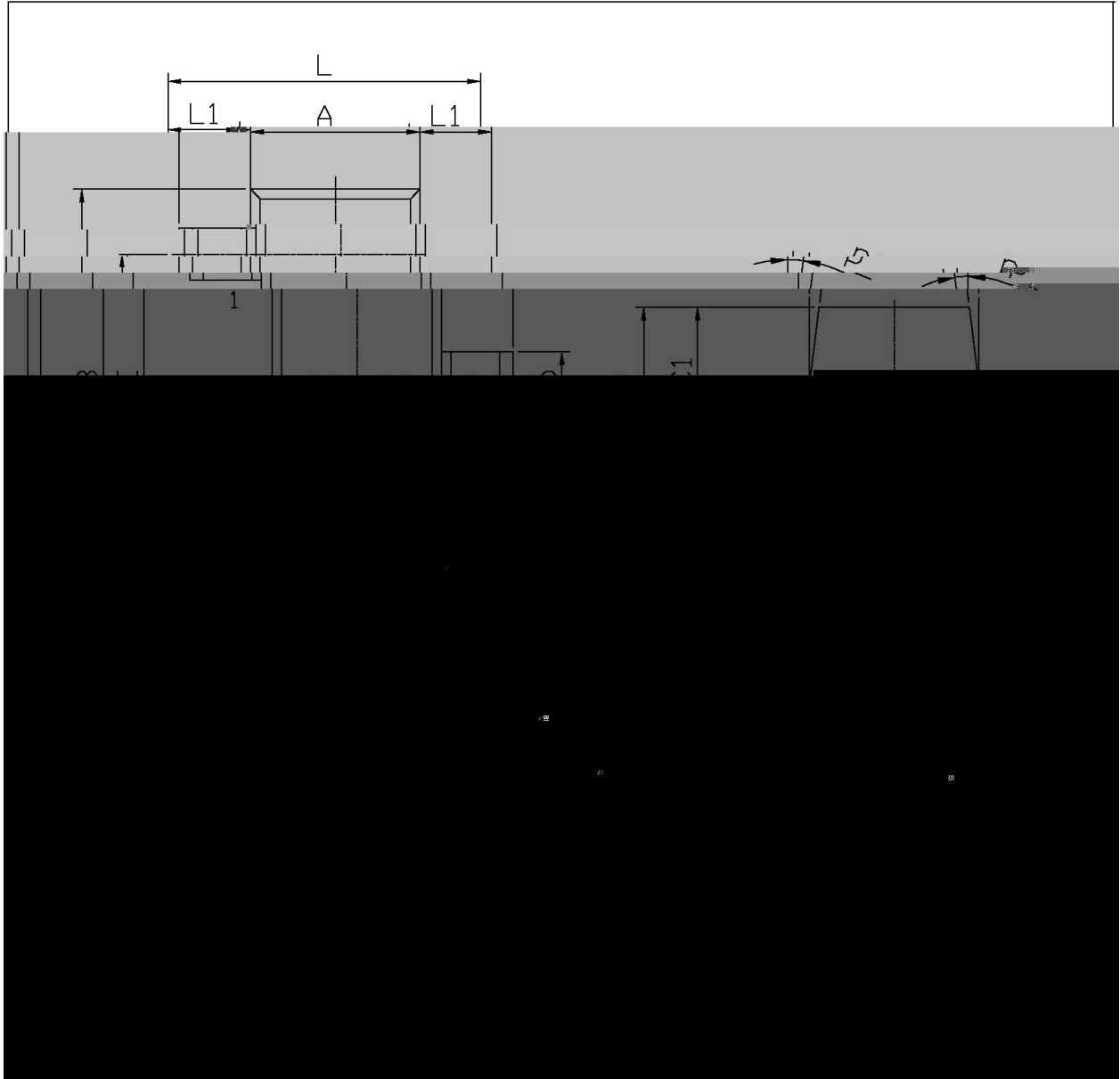


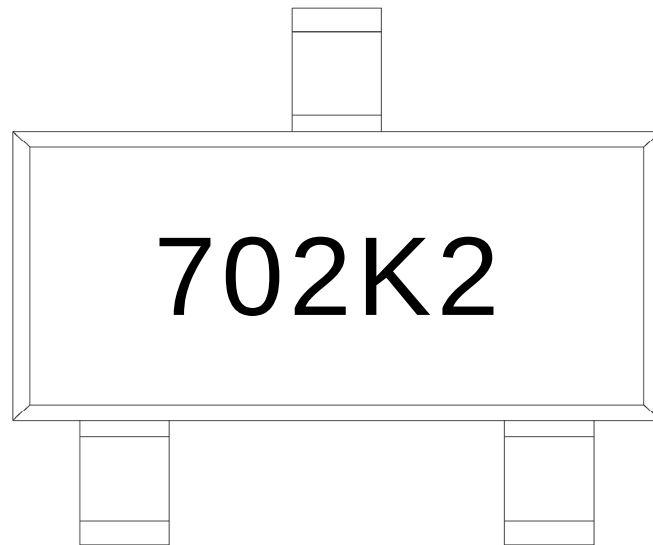
Figure 6 Diode Forward Voltage



SOT-23

单位: mm



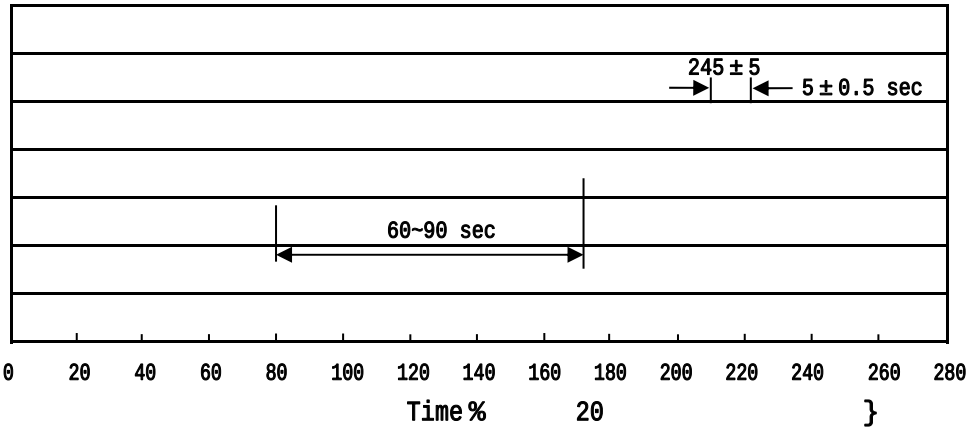


702K2

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.

260±5 10±1 sec. Temp.:260±5 Time:10±1 sec

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SOT-23	3,000	10	30,000	6	180,000	7 ×8	180×120×180	390×385×205