

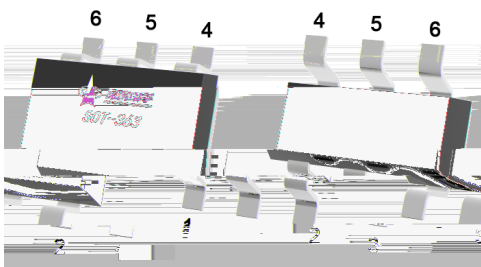
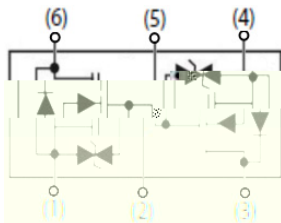
Rev.J Jan.-2024

SOT-363 N MOS

Double N-CHANNEL MOSFET in a SOT-363 Plastic Package.

Sensitive gate trigger current and Low Holding current,ESD protected diode, HF Product.

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



PIN1 4 S PIN 2 5 G PIN 3 6 D

See Marking Instructions.

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DSS}	60	V
Drain-Gate Voltage	V_{DGR}	60	V
Maximum Drain Current - Continuous	I_D	320	mA

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(ON)}$	$V_{GS}=10V, \quad V_{DD}=25V,$ $I_D=500mA, \quad R_G=25\ \Omega$		6.0		ns
Rise Time	t_r			5.8		
Turn-Off Delay Time	$t_{d(OFF)}$			13.2		
Fall Time	t_f			8.9		

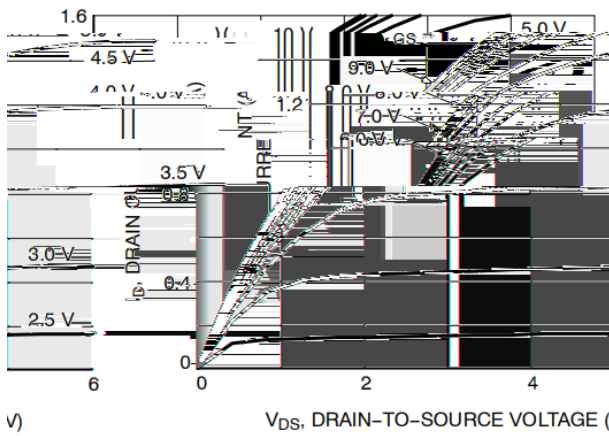


Figure 1. On-Region Characteristics

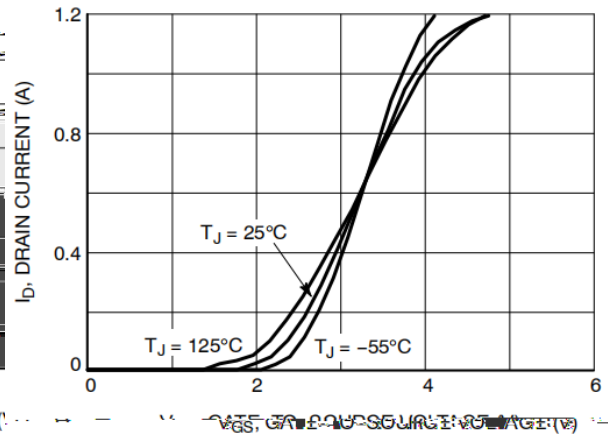


Figure 2. Transfer Characteristics

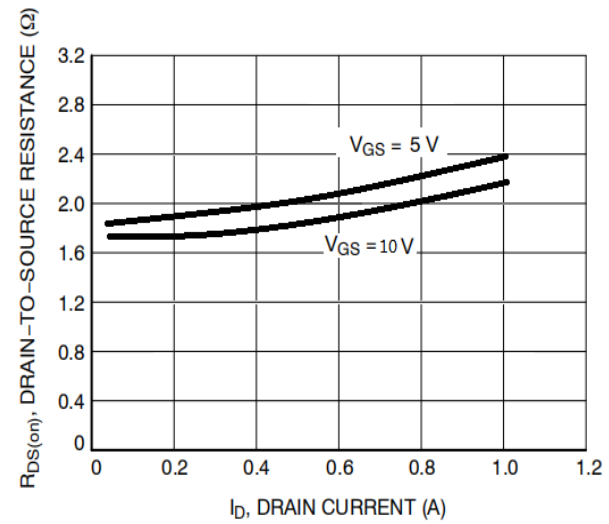


Figure 3. On-Resistance vs. Drain Current and Temperature

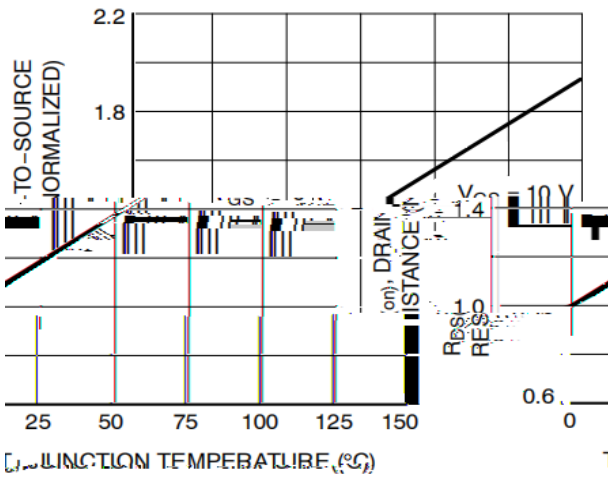


Figure 4. On-Resistance Variation with Temperature

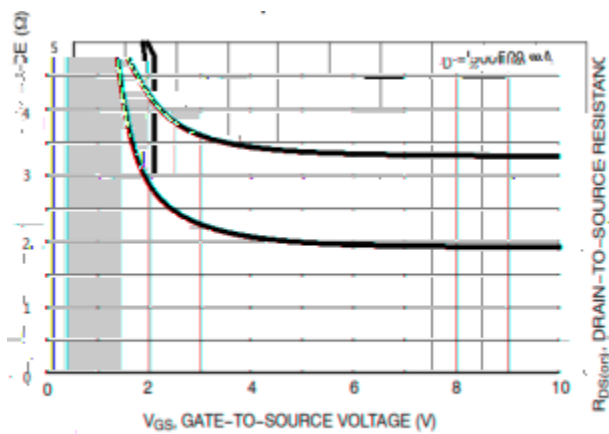


Figure 5. On-Resistance vs. Gate-to-Source Voltage

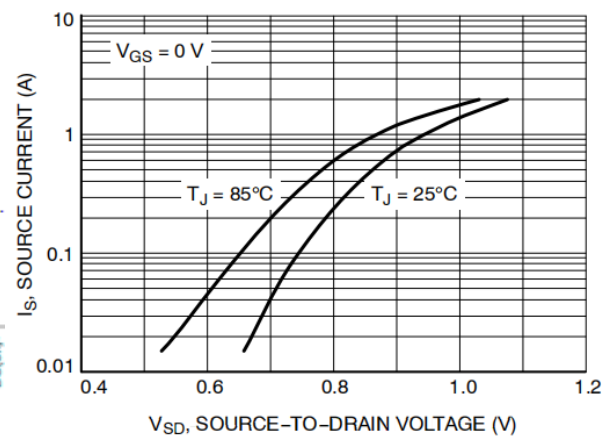


Figure 6. Diode Forward Voltage vs. Current

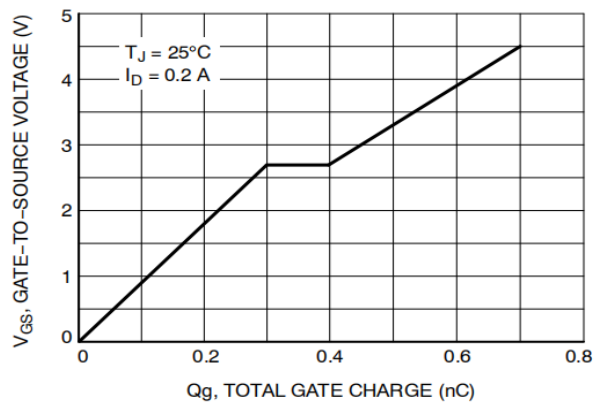


Figure 7 . Gate-to-Source and Drain-to-Source Voltage vs. Total Charge

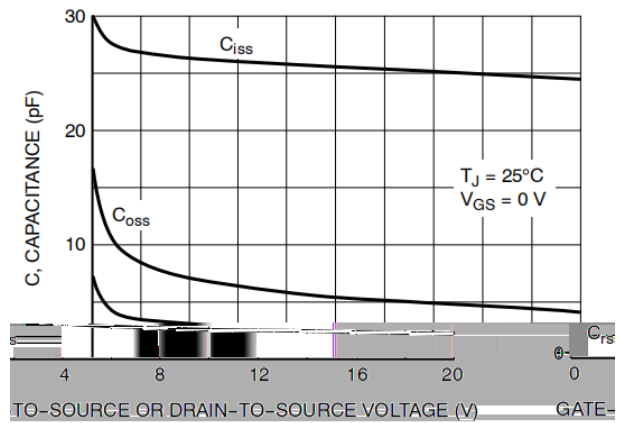


Figure 8. Capacitance Variation

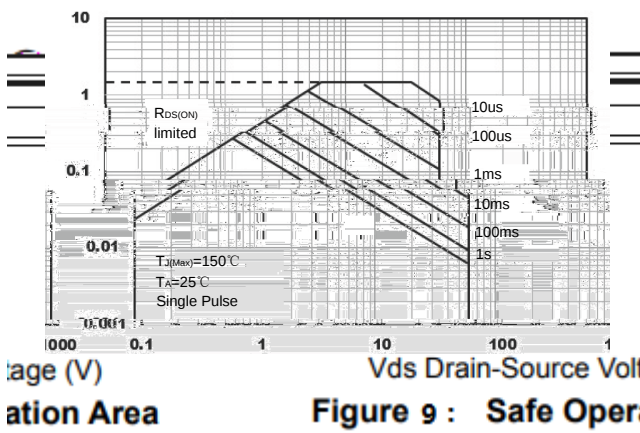


Figure 9 : Safe Operating Area

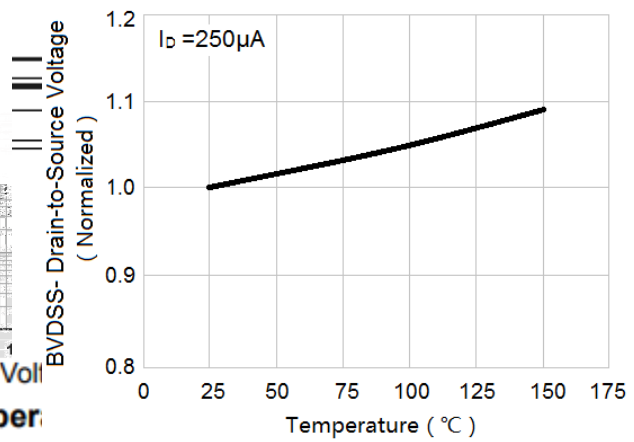
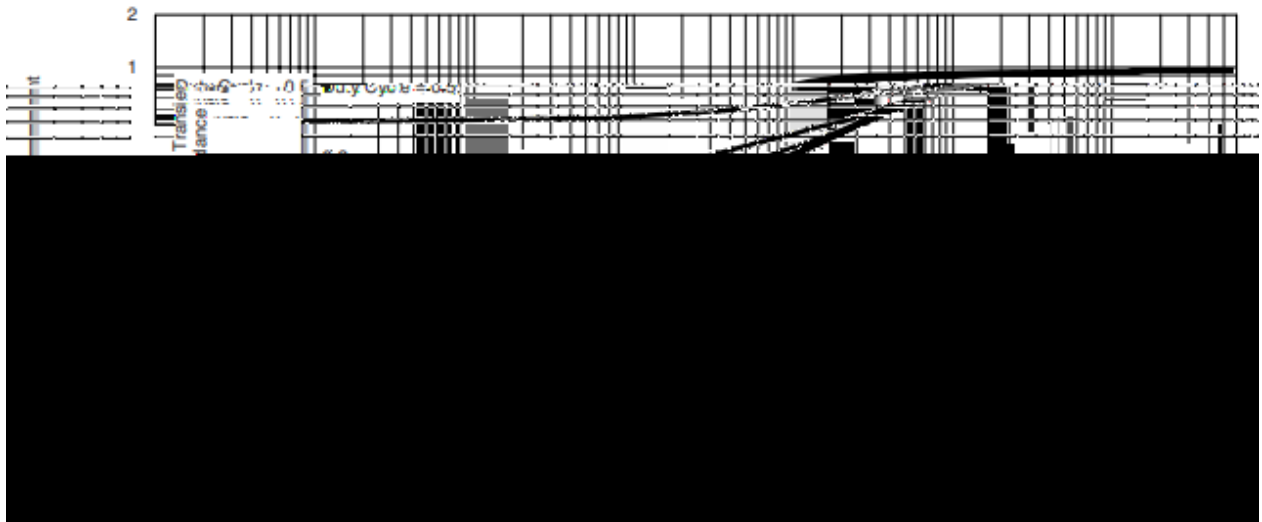
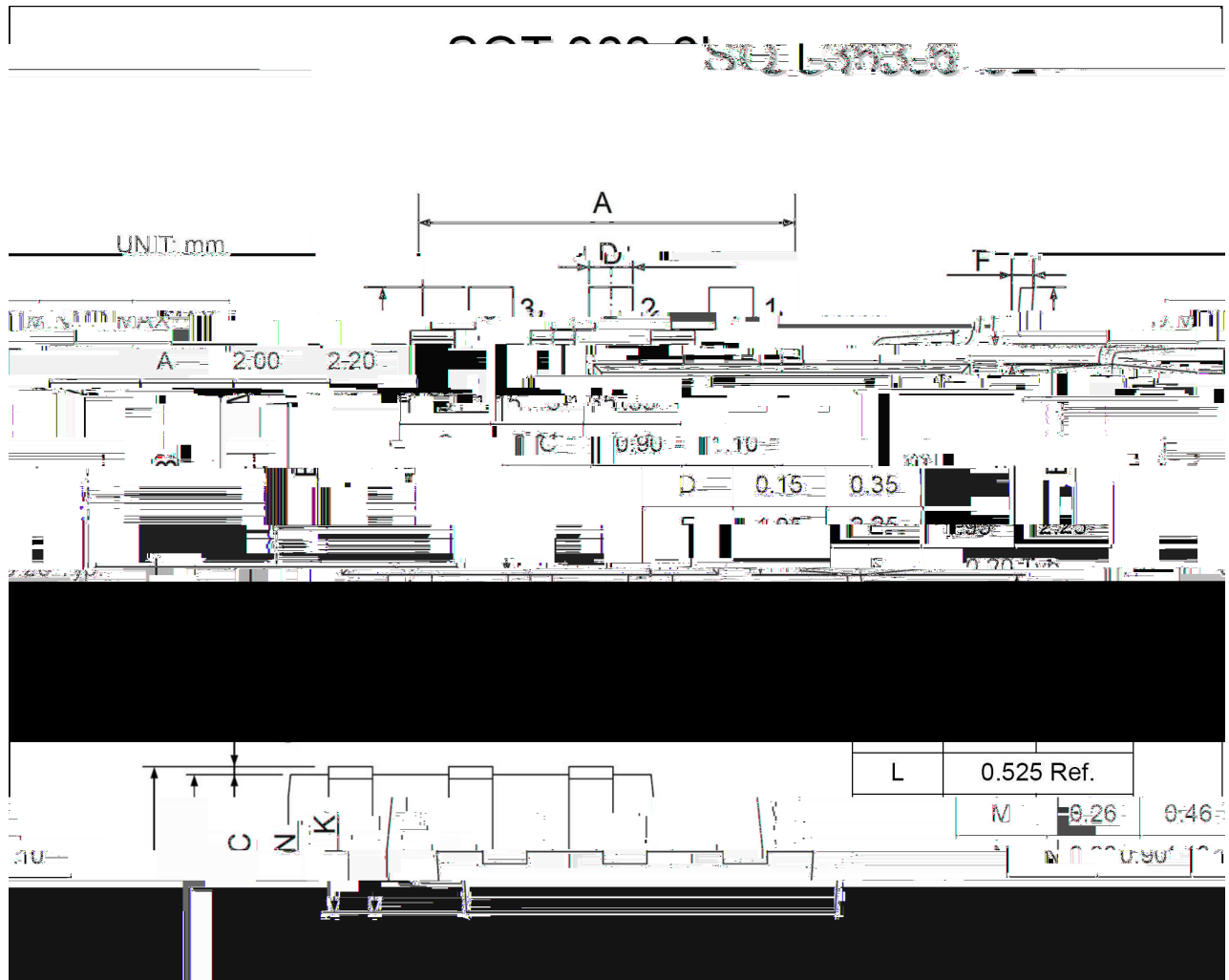
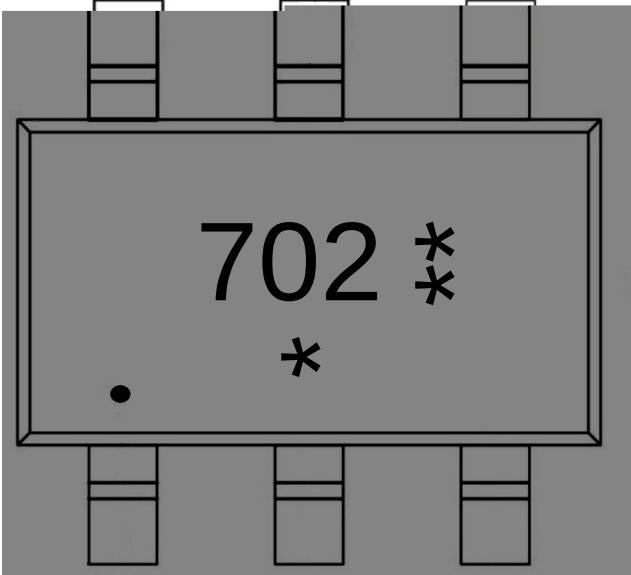


Figure 10 : Breakdown Voltage vs. Temperature







● “ 1 ”

702

***:

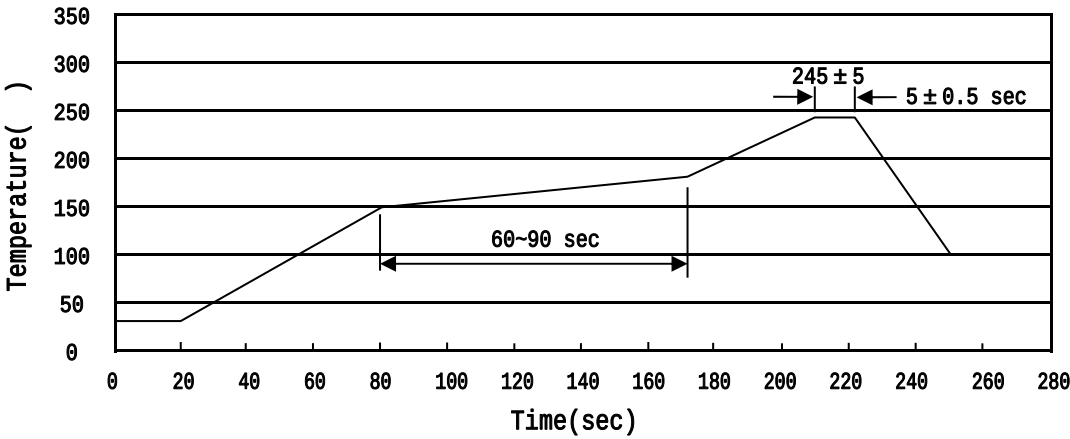
Note:

● “ 1 ” Pin

702 Product Type Code

***: Lot No. Code, code change with Lot No

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-363	3,000	10	30,000	6	180,000	7" ×8	180×120×180	390×385×205