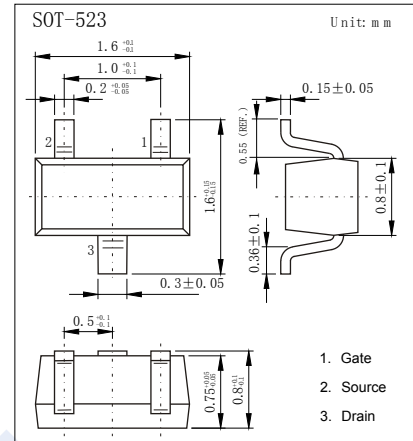
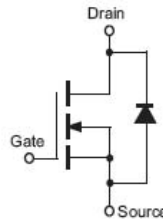


N-Channel MOSFET

2N7002T

Features

- $V_{DS} (V) = 60V$
- $I_D = 115mA$
- $R_{DS(ON)} < 5 \Omega$ ($V_{GS} = 10V$)
- $R_{DS(ON)} < 7 \Omega$ ($V_{GS} = 5V$)



Absolute Maximum Ratings $T_a = 25^\circ C$

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	60	V
Gate-Source Voltage	V_{GS}	± 20	
Continuous Drain Current	I_D	115	mA
Power Dissipation	P_D	150	mW
Thermal Resistance Junction- to-Ambient	R_{thJA}	833	$^\circ C/W$
Junction Temperature	T_J	150	$^\circ C$
Storage Temperature Range	T_{stg}	-55 to 150	

Electrical Characteristics $T_a = 25^\circ C$

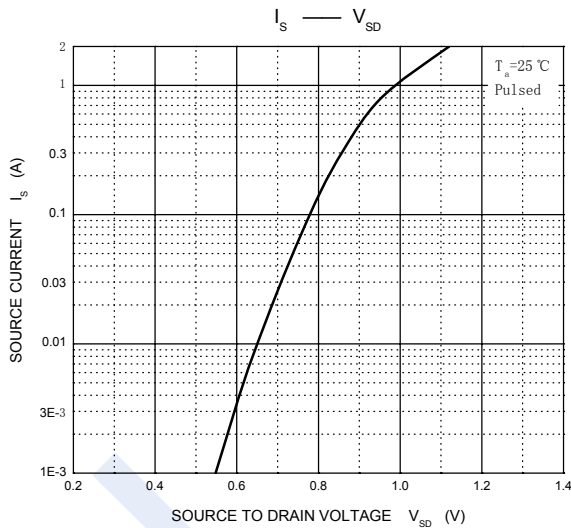
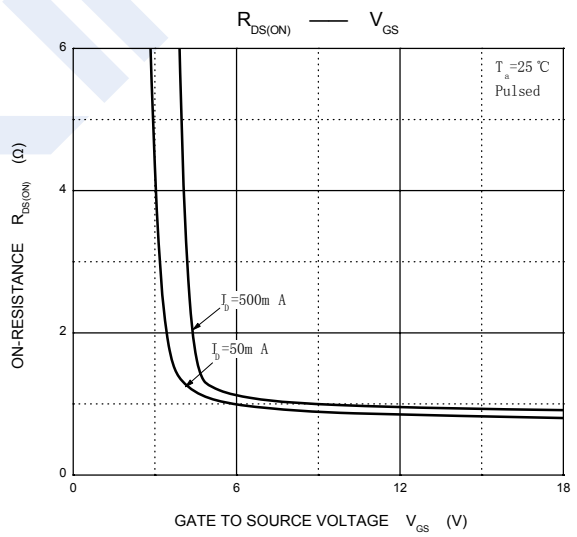
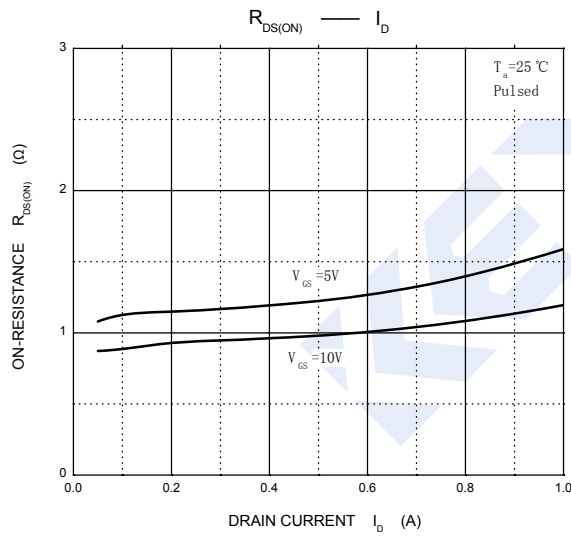
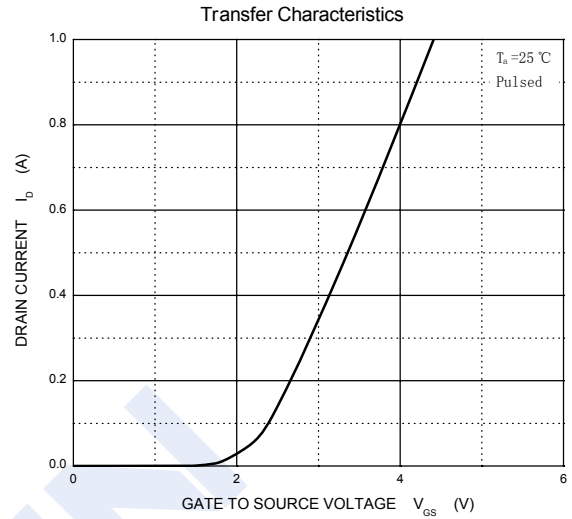
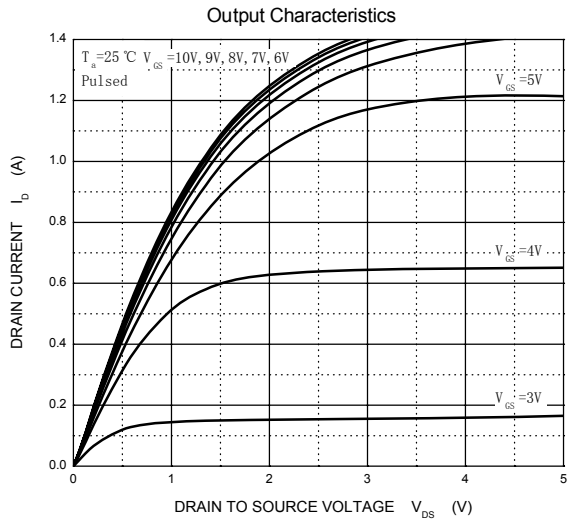
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	V_{DSS}	$I_D = 250 \mu A$, $V_{GS} = 0V$	60			V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS} = 60V$, $V_{GS} = 0V$			80	nA
Gate-Body Leakage Current	I_{GSS}	$V_{DS} = 0V$, $V_{GS} = \pm 20V$			± 80	nA
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS} = V_{GS}$, $I_D = 250 \mu A$	1		2.5	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	$V_{GS} = 10V$, $I_D = 500mA$			5	Ω
		$V_{GS} = 5V$, $I_D = 50mA$			7	
On State Drain Current	$I_{D(on)}$	$V_{GS} = 10V$, $V_{DS} = 7V$	500			mA
Forward Transconductance	g_{FS}	$V_{DS} = 10V$, $I_D = 0.2A$	80			mS
Input Capacitance	C_{iss}	$V_{GS} = 0V$, $V_{DS} = 25V$, $f = 1MHz$			50	pF
Output Capacitance	C_{oss}				25	
Reverse Transfer Capacitance	C_{rss}				5	
Turn-On DelayTime	$t_{d(on)}$	$V_{DD} = 25V$, $I_D = 0.5A$, $V_{GEN} = 10V$ $R_L = 50\Omega$, $R_{GEN} = 25\Omega$			20	ns
Turn-Off DelayTime	$t_{d(off)}$				40	
Drain-source on-voltage	$V_{DS(on)}$	$V_{GS} = 10V$, $I_D = 500mA$			3.75	V
		$V_{GS} = 5V$, $I_D = 50mA$			0.375	
Diode Forward Voltage	V_{SD}	$I_S = 115mA$, $V_{GS} = 0V$	0.55		1.2	

Marking

Marking	K72

N-Channel MOSFET 2N7002T

Typical Characteristics



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