

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 (818) 701-4939 Fax:

Features

- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Advanced Trench Process Technology
- High Input Impedance
- **High Speed Switching**
- CMOS Logic Compatible Input
- Marking : 7002/S72

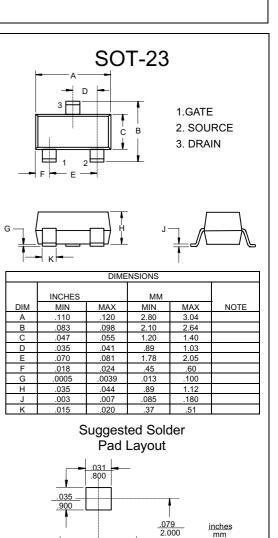
Maximum Ratings @ 25°C Unless Otherwise Specified

Symbol	Rating	Rating	Unit
V _{DS}	Drain-source Voltage	60	V
ID	Drain Current	115	mA
PD	Total Power Dissipation	200	mW
R $_{\rm JA}$	Thermal Resistance Junction to Ambient	625	°C/W
ТJ	Operating Junction Temperature	-55 to +150	°C
T _{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Par	Parameter			Тур	Max	Units	
$V_{(BR)DSS}$	Drain-Source Breakdown Voltage (V _{GS} =0Vdc, I _D =10µAdc)			60			Vdc	
$V_{tth(GS)}$	Gate-Threshold Voltage (V _{DS} =V _{GS} , I _D =250µAdc)			1.0		2.5	Vdc	
I _{GSS}	Gate-body Leakage (V _{DS} =0Vdc, V _{GS} =±20Vdc)					±100	nAdc	
I _{DSS}	Zero Gate Voltage Drain Current (V _{DS} =60Vdc, V _{GS} =0Vdc) (V _{DS} =60Vdc, V _{GS} =0Vdc, T _j =125°C)					1 500	µAdc	
I _{D(ON)}	On-state Drain Current (V _{DS} =7.5Vdc, V _{GS} =10Vdc)			500	2700		mAdc	
r _{DS(on)}	Drain-Source On-Resistance (V _{GS} =10Vdc, I _D =500mAdc) (V _{GS} =5Vdc, I _D =50mAdc)				1.2 1.7	7.5 7.5	Ω	
V _{DS(on)}	Drain-Source On-Voltage (V_{GS} =10Vdc, I_D =500mAdc) (V_{GS} =5Vdc, I_D =50mAdc)					3.75 1.5	Vdc	
G_{FS}	Forward Transconductance (V _{DS} =10Vdc, I _D =200mAdc)			80			ms	
V_{SD}	Diode Forward Voltage (V _{GS} =0Vdc, I _S =115mAdc)					1.5	Vdc	
I _S	Maximum Continuous Drain-Source Diode Forward Current			-		115	mA	
Ciss	Input Capacitance					50		
Coss	Output Capacitanc	nce V _{DS} =25Vdc, V _{GS} =0Vdc			25	pF		
C_{rSS}	Reverse Transfer Capacitance		f=1MHz			5	P.	
Switch	ing							
t _{d(on)}	Turn-on Time	V	/ _{DD} =30Vdc, / _{GEN} =10Vdc			20	ns	
t _{d(off)}	Turn-off Time	R _L =1	50Ω,I _D =200mA,			20	115	

R_{GEN}=25Ω



<u>.037</u> .950

<u>.037</u> .950

2N7002

N-Channel MOSFET

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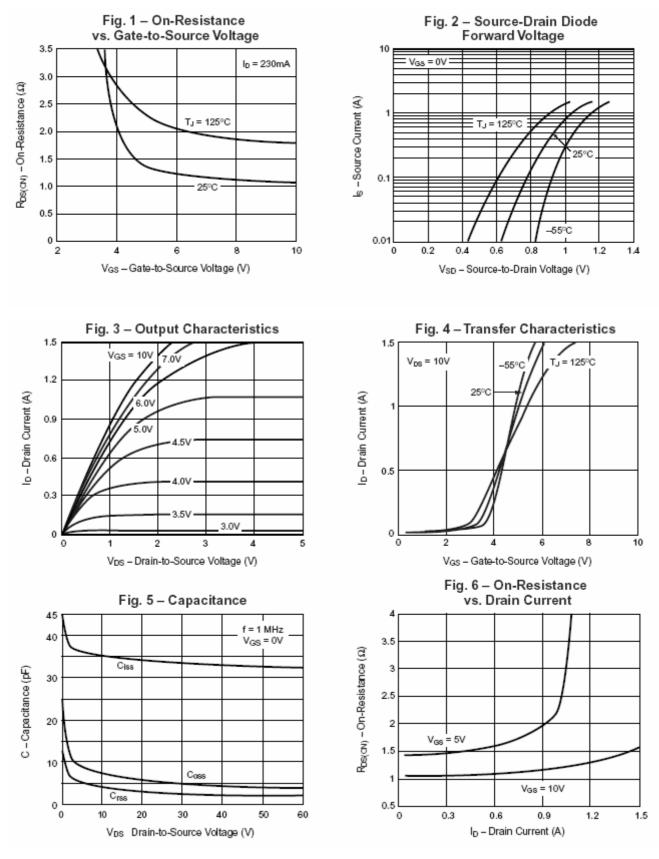
Revision: 4

t_{d(off)}

2N7002



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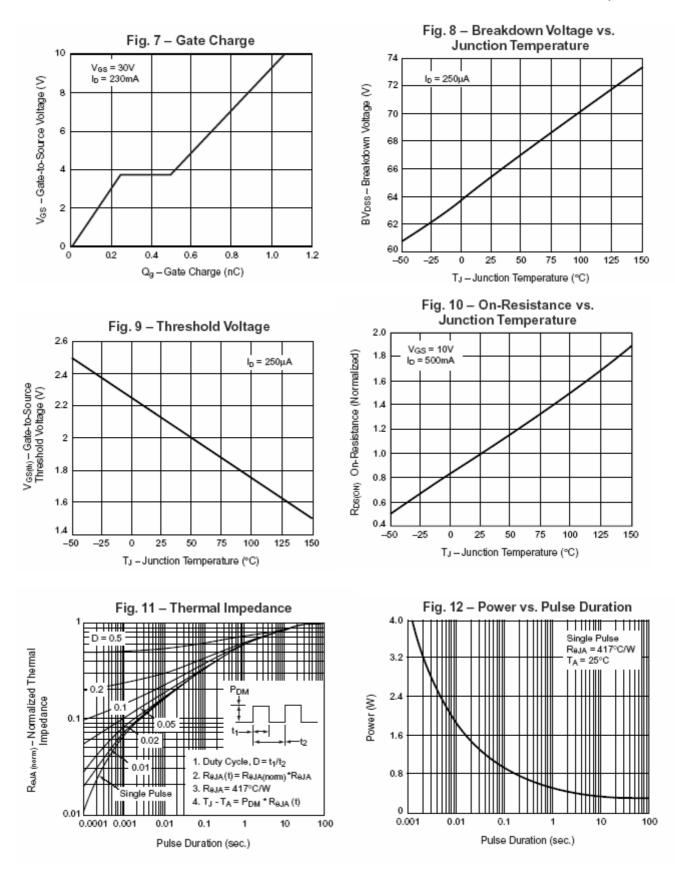


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2N7002



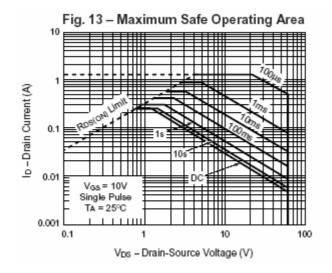
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2N7002





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Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel3Kpcs/Reel

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