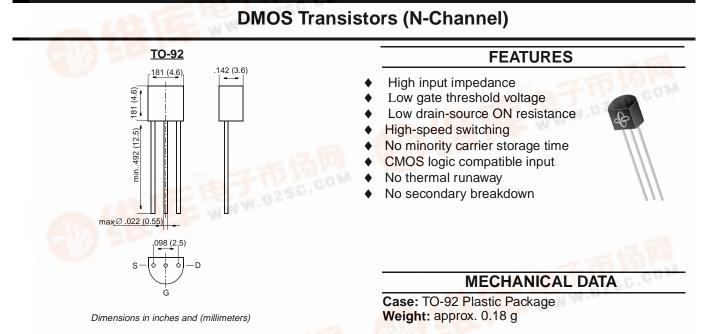
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2N7000



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified

	Symbol	Value	Unit
Drain-Source Voltage	V _{DSS}	60	V
Drain-Gate Voltage	V _{DGS}	60 01 01 01	V
Gate-Source Voltage (pulsed)	V _{GS}	± 20	V mA mW
Drain Current (continuous)	ID	300	
Power Dissipation at T _{amb} = 25 °C	P _{tot}	830 ¹⁾	
Junction Temperature	Tj	150	
Storage Temperature Range	T _S	-65 to +150	°C

¹⁾ Valid provided that leads are kept at ambient temperature at a distance of 2 mm from case.

Inverse Diode

WWW.DZSO.	Symbol	Value	Unit
Max. Forward Current (continuous) at T _{amb} = 25 °C	IF	500	mA
Forward Voltage Drop (typ.) at $V_{GS} = 0$, $I_F = 0.5 \text{ A}$, $T_j = 25 \text{ °C}$	VF	850	mV





2N7000

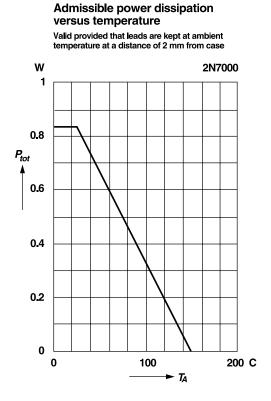
ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified

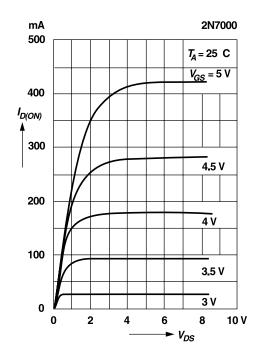
	Symbol	Min.	Тур.	Max.	Unit
Drain-Source Breakdown Voltage at I _D = 100 μ A, V _{GS} = 0 V	V _{(BR)DSS}	60	90	_	V
Gate-Body Leakage Current, Forward at V_{GSF} = 20 V, V_{DS} = 0 V	I _{GSSF}	-	-	10	nA
Gate-Body Leakage Current, Reverse at $V_{GSR} = -20$ V, $V_{DS} = 0$ V	I _{GSSR}	-	-	-10	nA
Drain Cutoff Current at V_{DS} = 48 V, V_{GS} = 0 V	I _{DSS}	-	-	1	μΑ
Gate-Source Threshold Voltage at $V_{GS} = V_{DS}$, $I_D = 1.0 \text{ mA}$	V _{GS(th)}	0.8	1.5	3	V
Drain-Source ON Resistance at V_{GS} = 10 V, I_D = 500 mA	R _{DS(ON)}	-	3.5	5.0	Ω
Capacitance at $V_{DS} = 25$ V, $V_{GS} = 0$ V, f = 1 MHz Input Capacitance Output Capacitance Feedback Capacitance	C _{iSS} C _{OSS} C _{rSS}		60 25 5	- - -	pF pF pF
Switching Times at V _{GS} = 10 V, V _{DS} = 10 V, R _D = 100 Ω Turn-On Time Turn-Off Time	t _{on} t _{off}		10 10		ns ns
	R _{thJA}			150 ¹⁾	K/W



RATINGS AND CHARACTERISTIC CURVES 2N7000

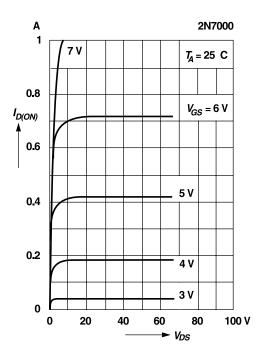


Saturation characteristics Pulse test width 80 ms; pulse duty factor 1%.

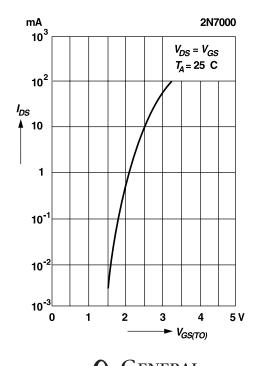


Output characteristics

Pulse test width 80 ms; pulse duty factor 1%.



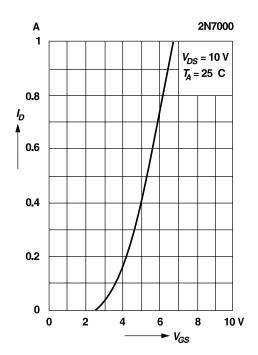
Drain-source current versus gate threshold voltage



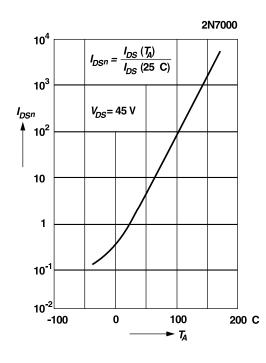
GENERAL

RATINGS AND CHARACTERISTIC CURVES 2N7000

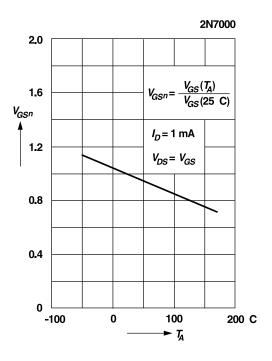
Drain current versus gate-source voltage Pulse test width 80 ms; pulse duty factor 1%.



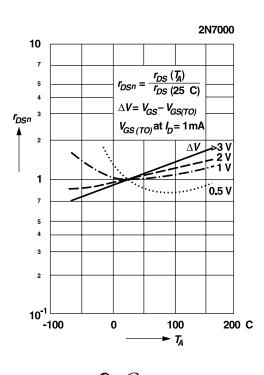
Normalized drain-source current versus temperature



Normalized gate-source voltage versus temperature

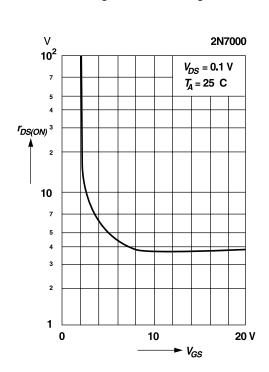






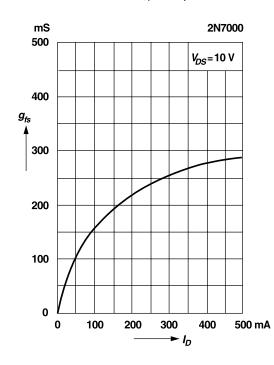
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RATINGS AND CHARACTERISTIC CURVES 2N7000

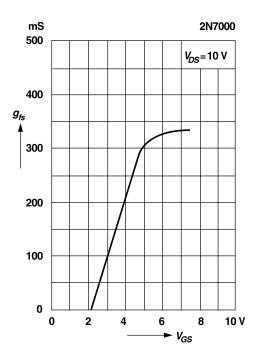


Drain-source resistance versus gate-source voltage

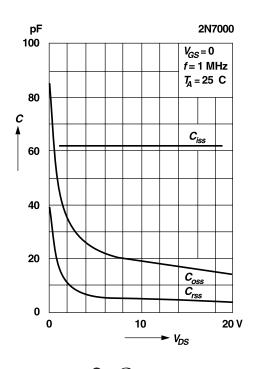
Transconductance versus drain current Pulse test width 80 ms; pulse duty factor 1%



Transconductance versus gate-source voltage Pulse test width 80 ms; pulse duty factor 1%



Capacitance versus drain-source voltage



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