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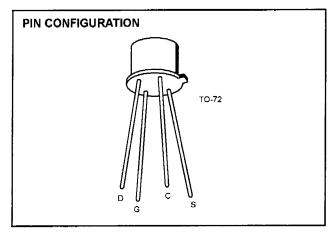
FAX: (973) 376-8960

P-Channel Enhancement Mode MOSFET Amplifier/Switch

2N4352

FEATURES

- Low ON Resistance
- Low Capacitance
- High Gain
- P-Channel Complement to 2N4341



ABSOLUTE MAXIMUM RATINGS

 $(T_A = 25^{\circ}C \text{ unless otherwise noted})$

Drain-Source Voltage
Drain-Gate Voltage
Gate-Source Voltage
Drain Current
Storage Temperature Range65°C to +200°C
Operating Temperature Range55°C to +150°C
Lead Temperature (Soldering, 10sec) +300°C
Power Dissipation
Derate above 25°C

NOTE: Stresses above those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. These are stress ratings only and functional operation of the device at these or any other conditions above those indicated in the operational sections of the specifications is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

ORDERING INFORMATION

Part	Package	Temperature Range
2N4352	Hermetic TO-72	-55°C to +150°C
X2N4352	Sorted Chips in Carriers	-55°C to +150°C

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise specified)

SYMBOL	PARAMETER	MIN	MAX	UNITS	TEST CONDITIONS
V _{(BR)DSX}	Drain-Source Breakdown Voltage	-25		Vdc	I _D = -10μA, V _{GS} = 0
loss	Zero-Gate-Voltage Drain Current		-10 -10	nAdc μAdc	V _{DS} = -10V, V _{GS} = 0, T _A = 25°C V _{DS} = -10V, V _{GS} = 0, T _A = 150°C
Igss	Gate Reverse Current		±10	pА	V _{GS} = ±30V, V _{DS} = 0
V _{GS(th)}	Gate Threshold Voltage	-1.0	-5.0	Vdc	V _{DS} = -10V, I _D = -10μA
V _{DS(on)}	Drain-Source On-Voltage		-1.0	V	I ₀ = -2mA, V _{GS} = -10V
I _{D(on)}	On-State Drain Current	-3.0		mA	V _{GS} = -10V, V _{DS} = -10V
FDS(on)	Drain-Source Resistance		600	ohms	V _{GS} = -10V, I _D = 0, f = 1.0kHz
yfs	Forward Transfer Admittance	1000		μmho	V _{DS} = -10V, I _D = 2.0mA, f = 1.0kHz
Ciss	Input Capacitance		5.0		V _{DS} = -10V, V _{GS} = 0, f = 140MHz
Crss	Reverse Transfer Capacitance		1.3	pF	V _{DS} = 0, V _{GS} = 0, f = 140MHz
Cd(sub)	Drain-Substrate Capacitance		5.0]	V _{D(sub)} = -10V, f = 140kHz
t _{d1}	Turn-On Delay		45		I _D = -2.0mAdc, V _{DS} = -10Vdc V _{GS} = -10V
tr	Rise Time		65	ns	
t _{d2}	Tum-Off Delay		60	1 "	
tf	Fall Time		100		

NJ Semi-Conductors reserves the right to change test conditions, parameters limits and package dimensions without notice information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.

Quality Semi-Conductors