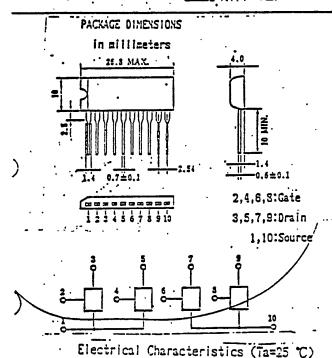


PRELIMINARY SPECIFICATION

MOS FIELD EFFECT TRANSISTOR

PA 1570H

FAST SWITCHING N-CHANNEL SILICON POWER MOS FET



features

Suitable for switching power supplies, actuater controls and pulse circuits 4V Gate Drive - Logic level -Low RDS(on)

No second breakdown

Absolute Maximum Ratings(Ta=25°C)

Drain to Source Voltage VDSS **30**Y Gate to Source Voltage VGSS ± 20V -Continuous Drain Current .. ID(DC) ±2.0A/uni= Pulse Drain Current ID(pulse)#±8.0A/uni: Total Power Dissipation 3.54 Total Power Dissipation PT‡‡ 221 Channel Temperature Tch 150 °C Storage Temperature Tstg -55to+150 °C PV≦100 μs,Duty Cycles ≦2 %

Tc=25 ℃

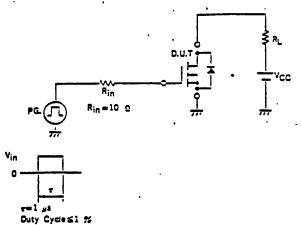
Characteristics	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Drain Leakage Current	IDSS			10	μА	VDS=30 V,VGS=0
Gate to Source Leakage Current	IGSS			100	πA	VGS= 20V, VDS=0
Gate to Source Cutoff Voltage	VGS(off)	1.0		2.5	V	VDS=10V,1D=1.0mA
Forward Transfer Admittance	yfs	1.0			S	VDS=10V, ID=1.0A
Orain to Source On-State Resistance	RDS(on)			0.35	Ω	VGS=10V, ID=1.0A
Drain to Source On-State Resistance	RDS(on)			0.50	Ω	VGS=4.0V ID=1.0A
Input Capacitance	Ciss		270		pF	VDS= 10V
Output Capacitance	Coss		150	•	pF	VGS=0
Reverse Transfer Capacitance	Crss	İ	70	Ī	pF	f=1.0MHz
Turn-On Delay Time	td(on)		45	-	ns	10=1.0A.
Rise Time .	tr	İ	40		ns	VGS(on)= 10V
Turn-Off Delay Time	td(off)		450	1	ns	Vcc=15V,
Fall Time	tf		110		ns	RL=15 Ω

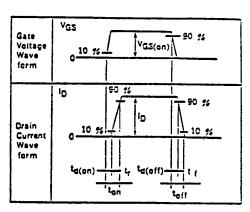
6427525 N E C ELECTRONICS INC

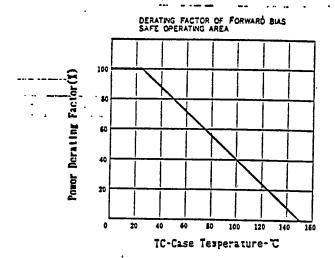
98D 19112

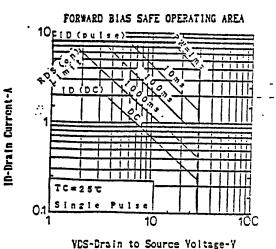
D T-43-25

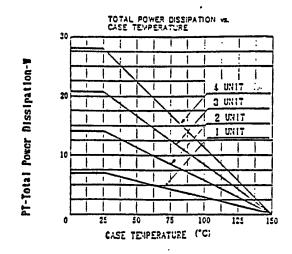
TURN-ON AND TURN-OFF TIME TEST CIRCUIT

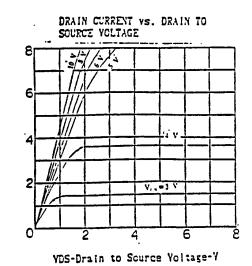






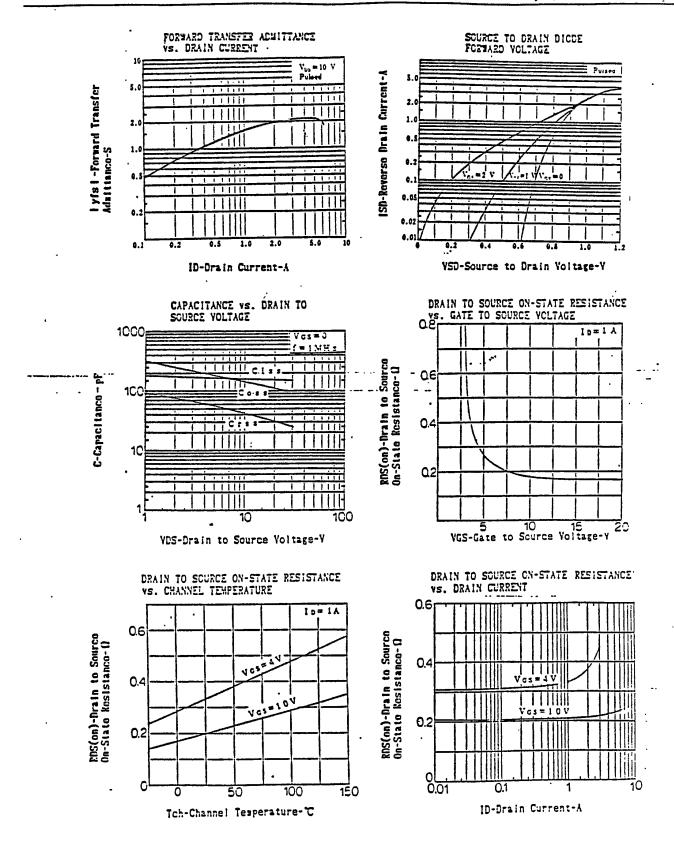


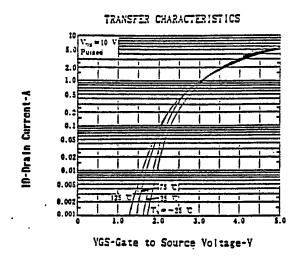


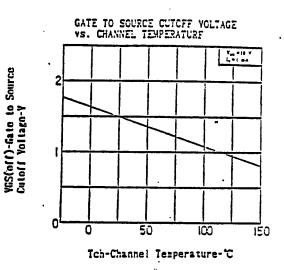


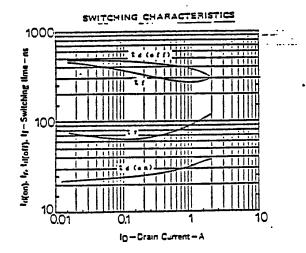
10-Drain Current-A

3









NEC Corporation

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