

Electrical Characteristics (Ta=25 °C)



Characteristics	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Drain Leakage Current	IDSS			10	μA	VDS=100V,VGS=0
Gate to Source Leakage Current	IGSS			100	nA	VGS= 20V,VDS=0
Gate to Source Cutoff Voltage	VGS(off)	1.0		2.5	V	VDS=10V, ID=1.0mA
Forward Transfer Admittance	yfs	4.0	10		S	VDS=10V, 1D=3.04
Drain to Source On-State	RDS(on)		0.1	0.18	Ω	VGS=10V, 1D=8.0A
Resistance			-	38	2.7	azsc.
Drain to Source On-State	RDS(on)		0.15	0.25	Ω	VGS=4.0V1D=8.0A
Resistance	3.90					
Input Capacitance	Ciss		1200		pF	VDS=.10V,
Output Capacitance	Coss		400		pF	VGS=0,
Reverse Transfer Capacitance	Crss		90		pF	f=1.0MHz
Turn-On Delay Time	td(on)		10		ns	1D=8.04,
Rise Time	tr		20		ns	VGS(on)= 10\.
Turn-Off Delay Time	tu(off)		65		ns	Vcc= 40V,
Fall Time	tf		55		ns –	RL= 5.0 Ω

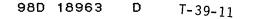


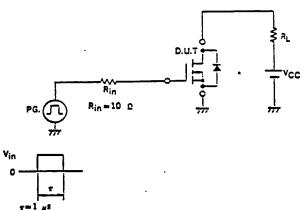
NEC cannot assume any responsibility for any circuits shown or represent that they are free from patent infringement.

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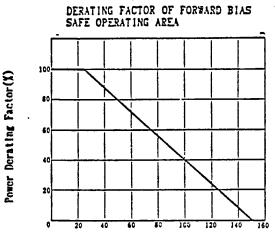
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6427525 N E C ELECTRONICS INC TURN-ON AND TURN-OFF TIME TEST CIRCUIT

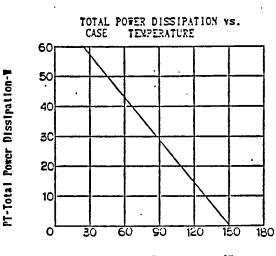




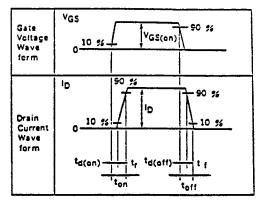




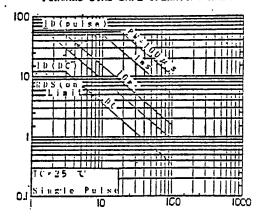




Tc-Case Tesperature-C

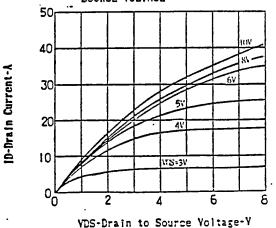


FORWARD BIAS SAFE OPERATING AREA





DRAIN CURRENT VS. DRAIN TO SOURCE VOLTAGE



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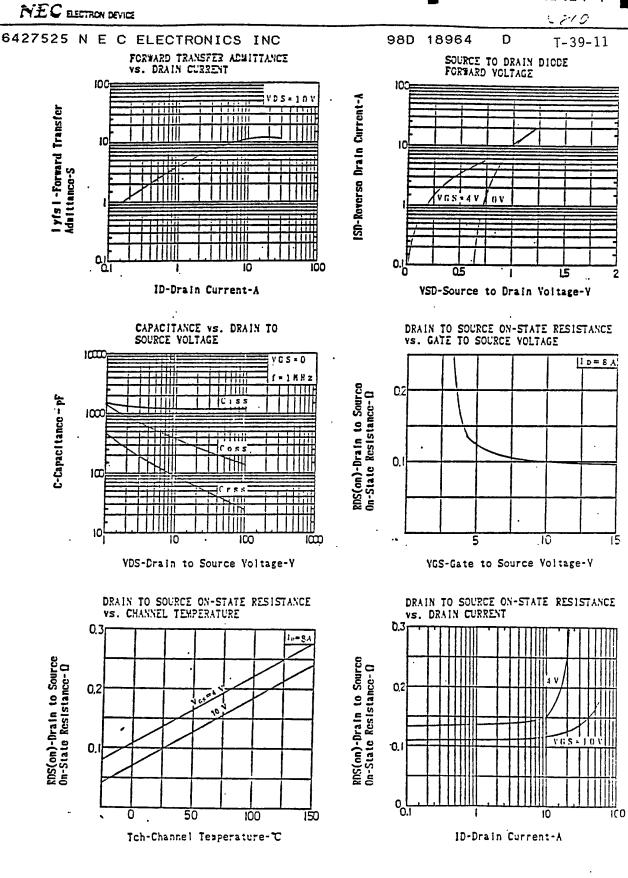
ID-Drain Current-A

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ID-Drain Current-A

SWITCHING TIME td(on).tr.td(off).tf (n =)

NORWARIZED TRANSIENT Rth(ch-c)(t)/Rih(ch-c) THERMAL HAPDAVCE

0.01

105

TTU

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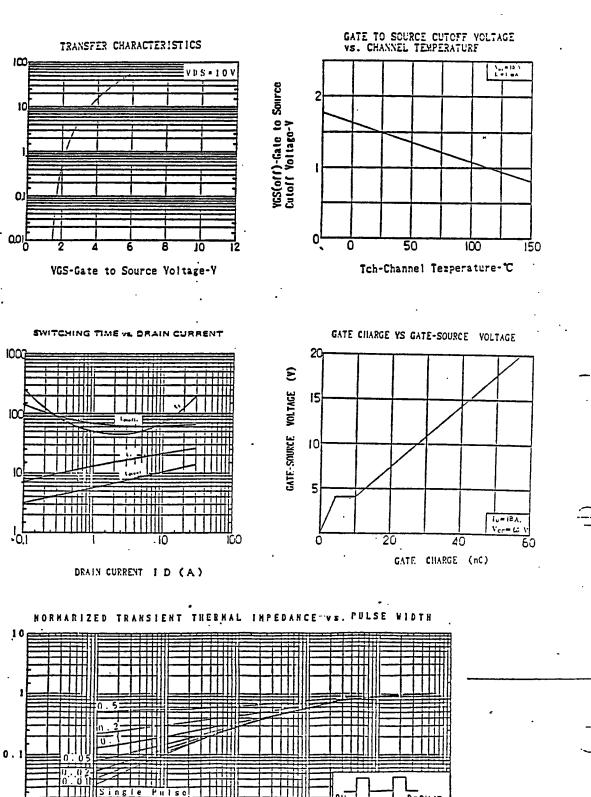
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Pulse

1 0-3

98

98D 18965 D T-39-11



PULSE WIDTH PW (S)

10.3

TT

10

D=PV/T

10

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