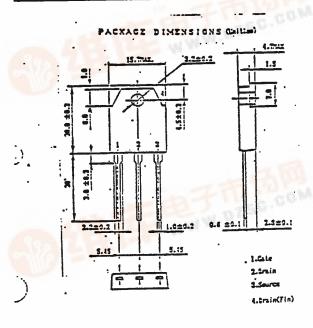




MOS FIELD EFFECT TRANSISTOR

2SK819

FAST SWITCHING . N-CHANNEL SILICON POWER MOS FET



Features

Suitable for switching power supplies, actuator controls and pulse circuits
Low RDS(on)

Absolute Maximum Ratings(Ta=25°C) Drain to Source Voltage ___ VDSS 500V VGSS ± 20V Gate to Source Voltage ID(DC) ± 10A Continuous Drain Curre ID(pulse) ≭ ± 30Å Pulse Drain Current Total Power Dissipation PT 3.0 Total Power Dissipation PT## 100% 150 ℃ Tch Channel Temperature -55to+150 ℃ Tstg Storage Temperature ‡ PW ≤100 us, Duty Cycle≤2% ## Tc=25 ℃

Electrical Characteristics (Ta=25 °C)

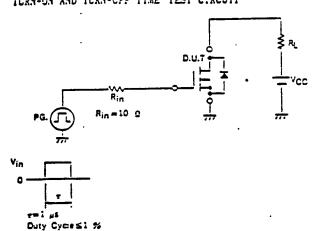
Characteristics	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Drain Leakage Current Gate to Source Leakage Current Gate to Source Cutoff Voltage Forward Transfer Admittance Drain to Source On-State Resistance Input Capacitance Output Capacitance Reverse Transfer Capacitance Turn-On Delay Time Rise Time Turn-Off Delay Time Fall Time	IDSS IGSS VGS(off) yfs RDS(on) Ciss Coss Crss td(on) tr td(off)	1.5	0.70 1270 320 70 15 20 60 30	1	μΑ V S Q PF PF ns ns ns ns	VDS=500V,VGS=0 VGS=±20V,VDS=0 VDS=10V,1D=1.0mA VDS=10V.1D=5.0A VGS=10V.1D=5.0A VDS= 10V, VGS=0. f=1.0MHz 1D=5.04, VGS(on)= 10V, Vcc=150V, RL= 30 Ω

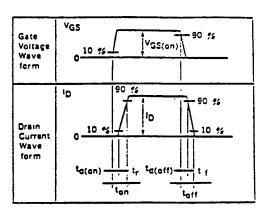
NEC BECTRON DEVICE

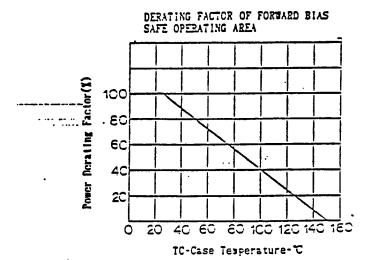
6427525 N E C ELECTRONICS INC TURN-ON AND TURN-OFF TIME TEST CIRCUIT 98D 18987

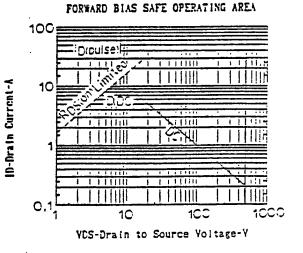
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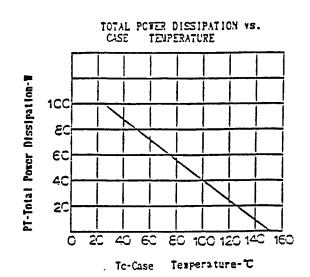
T-39-13

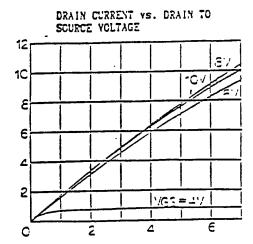






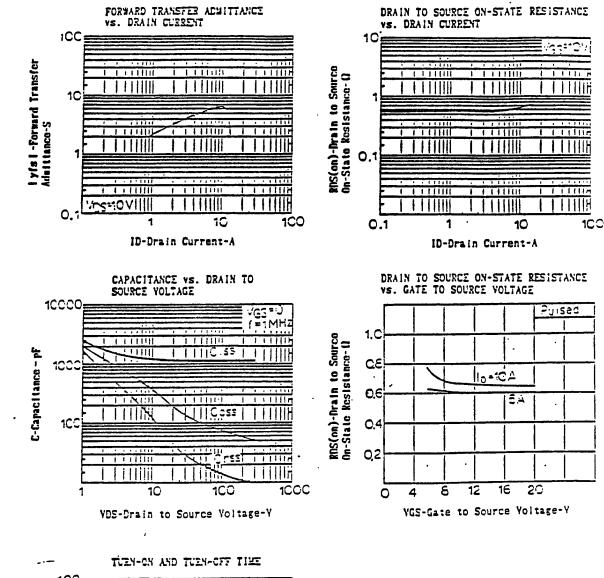


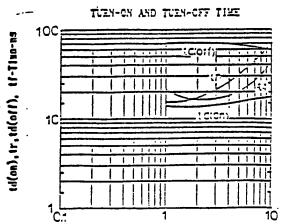




10-Drain Current-A

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