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SANYO Semiconductors

DATA SHEET

6HN04MH

N-Channel Silicon MOSFET

General-Purpose Switching Device Applications

Features

· 4V drive.

Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	VDSS		60	V
Gate-to-Source Voltage	VGSS		±20	V
Drain Current (DC)	ID		200	mA
Drain Current (Pulse)	IDP	PW≤10μs, duty cycle≤1%	800	mA
Allowable Power Dissipation	PD	Mounted on a ceramic board (900mm ² X0.8mm)	0.6	W
Channel Temperature	Tch		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			1.124
			min	typ	max	Unit
Drain-to-Source Breakdown Voltage	V(BR)DSS	ID=1mA, VGS=0V	60			V
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =60V, V _{GS} =0V			1	μΑ
Gate-to-Source Leakage Current	IGSS	V _{GS} =±16V, V _{DS} =0V			±10	μΑ
Cutoff Voltage	VGS(off)	VDS=10V, ID=100μA	1.2		2.6	V
Forward Transfer Admittance	yfs	V _{DS} =10V, I _D =100mA	140	240		mS
Static Drain-to-Source On-State Resistance	R _{DS} (on)1	ID=100mA, VGS=10V		1.8	2.4	Ω
	RDS(on)2	ID=50mA, VGS=4V		2.6	3.7	Ω
Input Capacitance	Ciss	V _{DS} =20V, f=1MHz		27		pF
Output Capacitance	Coss	V _{DS} =20V, f=1MHz		8.6		pF
Reverse Transfer Capacitance	Crss	VDS=20V, f=1MHz		4.4		pF
Turn-ON Delay Time	t _d (on)	See specified Test Circuit.		13.5		ns
Rise Time	tr	See specified Test Circuit.		11.5		ns
Turn-OFF Delay Time	t _d (off)	See specified Test Circuit.		81		ns
Fall Time	tf	See specified Test Circuit.		39		ns

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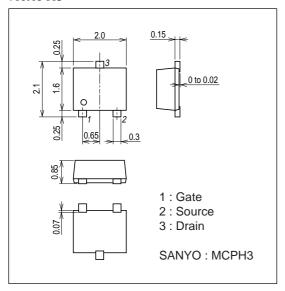
6HN04MH

C查询收付的物种的增加

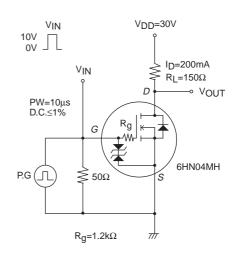
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max) Oill
Total Gate Charge	Qg	VDS=30V, VGS=10V, ID=200mA		1.88		nC
Gate-to-Source Charge	Qgs	V _{DS} =30V, V _{GS} =10V, I _D =200mA		0.4		nC
Gate-to-Drain "Miller" Charge	Qgd	VDS=30V, VGS=10V, ID=200mA		0.37		nC
Diode Forward Voltage	VSD	IS=200mA, VGS=0V		0.85	1.2	V

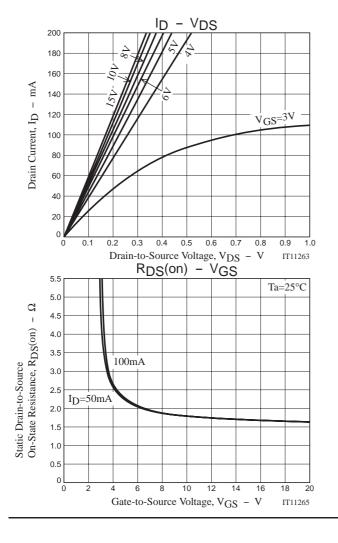
Package Dimensions

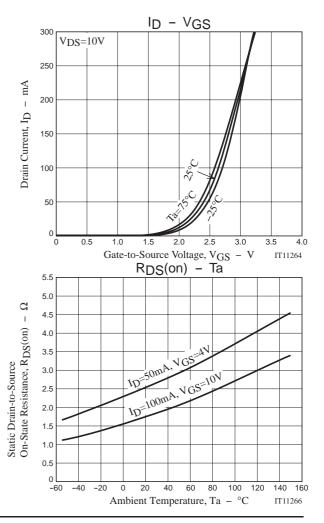
unit : mm (typ) 7019A-003



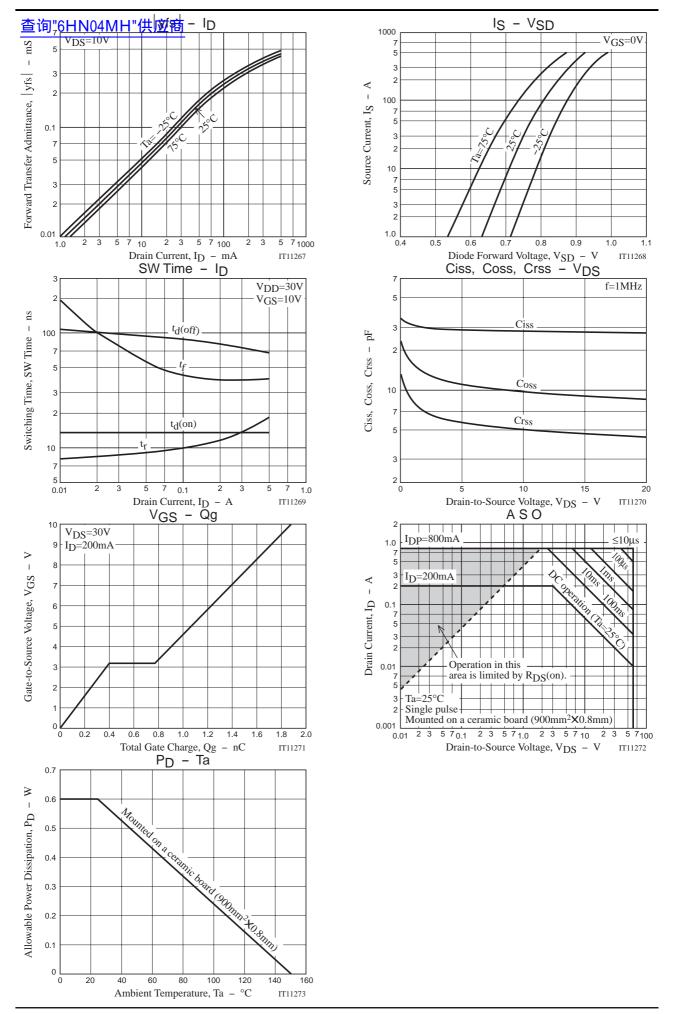
Switching Time Test Circuit







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Note on usage: Since the 6HN04MH is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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