查询5HN01SS供应商

捷多邦,专业PCB打样工厂,24小时加急出货

Ordering number : ENN6640

N-Channel Silicon MOSFET



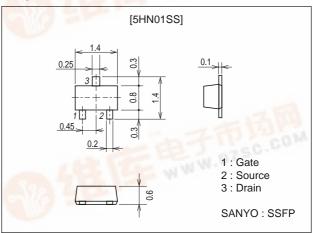
Features

- Low ON-resistance.
- Ultrahigh-speed switching.
- 4V drive.

Package Dimensions

unit : mm

2179



Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	VDSS		50	V
Gate-to-Source Voltage	VGSS		±20	V
Drain Current (DC)	۱D		0.1	А
Drain Current (Pulse)	IDP	PW≤10µs, duty cycle≤1%	0.4	А
Allowable Power Dissipation	PD		0.15	W
Channel Temperature	Tch		150	°C
Storage Temperature	Tstg	Rea TIPE	-55 to +150	°C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Drain-to-Source Breakdown Voltage	V(BR)DSS	ID=1mA, VGS=0	50			V
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =50V, V _{GS} =0			10	μA
Gate-to-Sourse Leakage Current	IGSS	VGS=±16V, VDS=0			±10	μA
Cutoff Voltage	VGS(off)	V _{DS} =10V, I _D =100μA	1		2.4	V
Forward Transfer Admittance	yfs	V _{DS} =10V, I _D =50mA	85	120	A750	mS
Static Drain-to-Source On-State Resistance	RDS(on)1	ID=50mA, VGS=10V	Contract in	5.8	7.5	Ω
	R _{DS} (on)2	ID=30mA, VGS=4V	100	7.5	10.5	Ω

Continued on next page.

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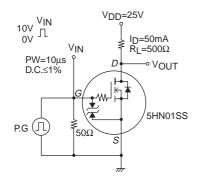


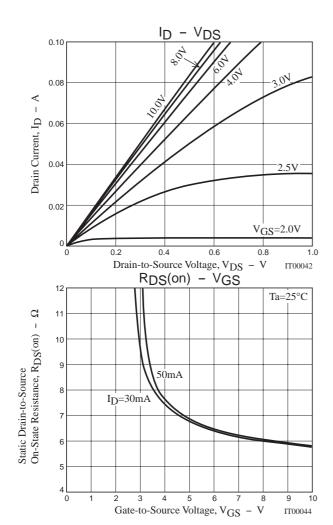
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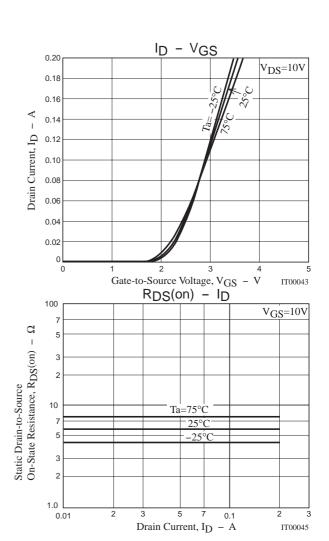
Parameter	Symbol	Conditions		Ratings		
			min	typ	max	Unit
Input Capacitance	Ciss	VDS=10V, f=1MHz		6.2		pF
Output Capacitance	Coss	V _{DS} =10V, f=1MHz		4.4		pF
Reverse Transfer Capacitance	Crss	V _{DS} =10V, f=1MHz		1.5		pF
Turn-ON Delay Time	td(on)	See specified Test Circuit		10		ns
Rise Time	tr	See specified Test Circuit		11		ns
Turn-OFF Delay Time	t _d (off)	See specified Test Circuit		105		ns
Fall Time	tf	See specified Test Circuit		75		ns
Total Gate Charge	Qg	V _{DS} =10V, V _{GS} =10V, I _D =100mA		1.40		nC
Gate Source Charge	Qgs	V _{DS} =10V, V _{GS} =10V, I _D =100mA		0.21		nC
Gate-to-Drain "Miller" Charge	Qgd	VDS=10V, VGS=10V, ID=100mA		0.34		nC
Diode Forward Voltage	VSD	IS=100mA, VGS=0		0.85	1.2	V

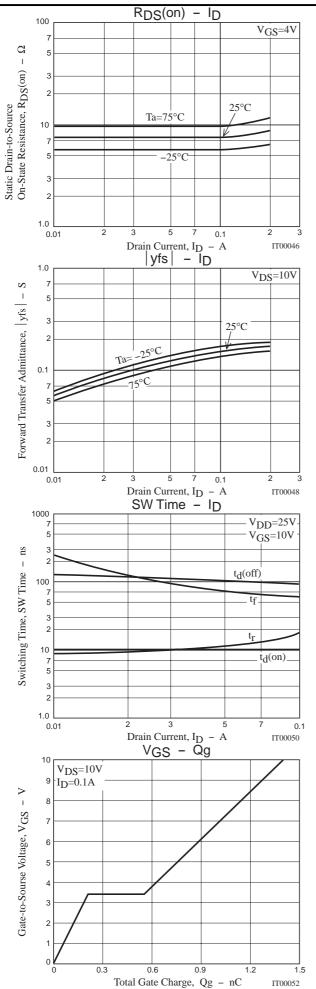
Marking : YC

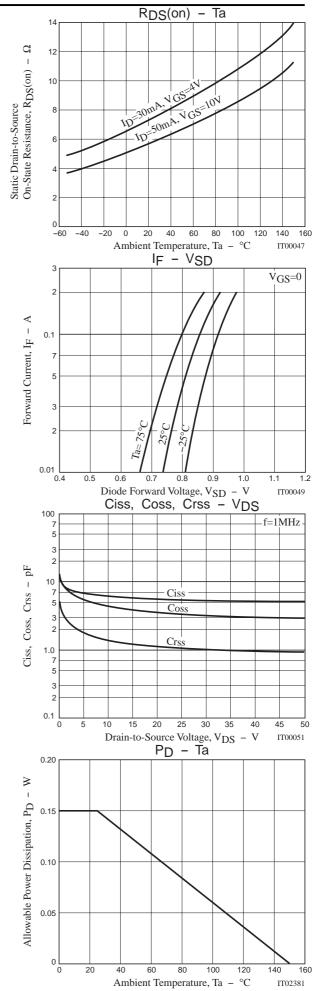
Switching Time Test Circuit











5HN01SS

Note on usage : Since the 5HN01SS is designed for high-speed switching applications, please avoid using this device in the vicinity of highly charged objects.

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