Ordering number : ENN7264



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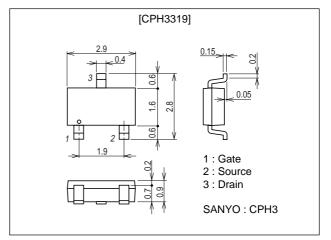
Ultrahigh-Speed Switching Applications

Features

- · Low ON-resistance.
- · Ultrahigh-speed switching.
- · 1.8V drive.

Package Dimensions

unit : mm 2152A



Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	VDSS W	ww.DataSheet4U.com	-12	V
Gate-to-Source Voltage	VGSS		±8	V
Drain Current (DC)	ID		-1.5	Α
Drain Current (Pulse)	IDP	PW≤10μs, duty cycle≤1%	-6	Α
Allowable Power Dissipation	PD	Mounted on a ceramic board (900mm ² X0.8mm)	0.9	W
Channel Temperature	Tch		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Llmit
			min	typ	max	Unit
Drain-to-Source Breakdown Voltage	V(BR)DSS	ID=-1mA, VGS=0	-12			V
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =-12V, V _{GS} =0			-10	μΑ
Gate-to-Source Leakage Current	IGSS	V _{GS} =±6.4V, V _{DS} =0			±10	μΑ
Cutoff Voltage	Vgs(off)	V _{DS} =-6V, I _D =-1mA	-0.3		-1.0	V
Forward Transfer Admittance	yfs	V _{DS} =-6V, I _D =-0.8A	1.3	1.8		S
Static Drain-to-Source On-State Resistance	R _{DS} (on)1	I _D =-0.8A, V _G S=-4.5V		220	290	mΩ
	R _{DS} (on)2	I _D =-0.4A, V _G S=-2.5V		320	450	mΩ
	RDS(on)3	ID=-0.1A, VGS=-1.8V		430	650	mΩ

Marking: JU Continued on next page.

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- SANYO assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all SANYO products described or contained herein

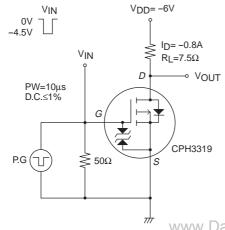
SANYO Electric Co.,Ltd. Semiconductor Company
TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

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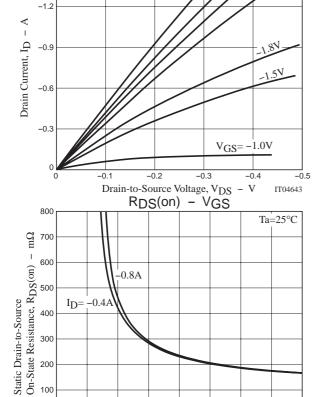
Parameter	Symbol	Conditions	Ratings			Linit
			min	typ	max	Unit
Input Capacitance	Ciss	V _{DS} =-6V, f=1MHz		160		pF
Output Capacitance	Coss	V _{DS} =-6V, f=1MHz		45		pF
Reverse Transfer Capacitance	Crss	VDS=-6V, f=1MHz		35		pF
Turn-ON Delay Time	t _d (on)	See specified Test Circuit.		11		ns
Rise Time	t _r	See specified Test Circuit.		45		ns
Turn-OFF Delay Time	t _d (off)	See specified Test Circuit.		29		ns
Fall Time	tf	See specified Test Circuit.		30		ns
Total Gate Charge	Qg	V _{DS} =-6V, V _{GS} =-4.5V, I _D =-1.5A		2.6		nC
Gate-to-Source Charge	Qgs	V _{DS} =-6V, V _{GS} =-4.5V, I _D =-1.5A		0.25		nC
Gate-to-Drain "Miller" Charge	Qgd	V _{DS} =-6V, V _{GS} =-4.5V, I _D =-1.5A		0.65		nC
Diode Forward Voltage	V _{SD}	I _S =-1.5A, V _{GS} =0		-0.92	-1.5	V

Switching Time Test Circuit



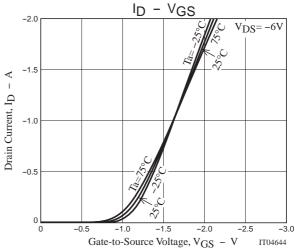
ID - VDS

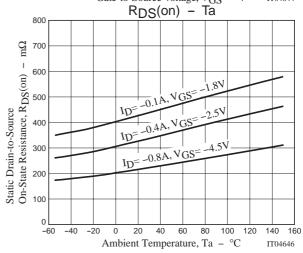




Gate-to-Source Voltage, $V_{GS} - V$

-6

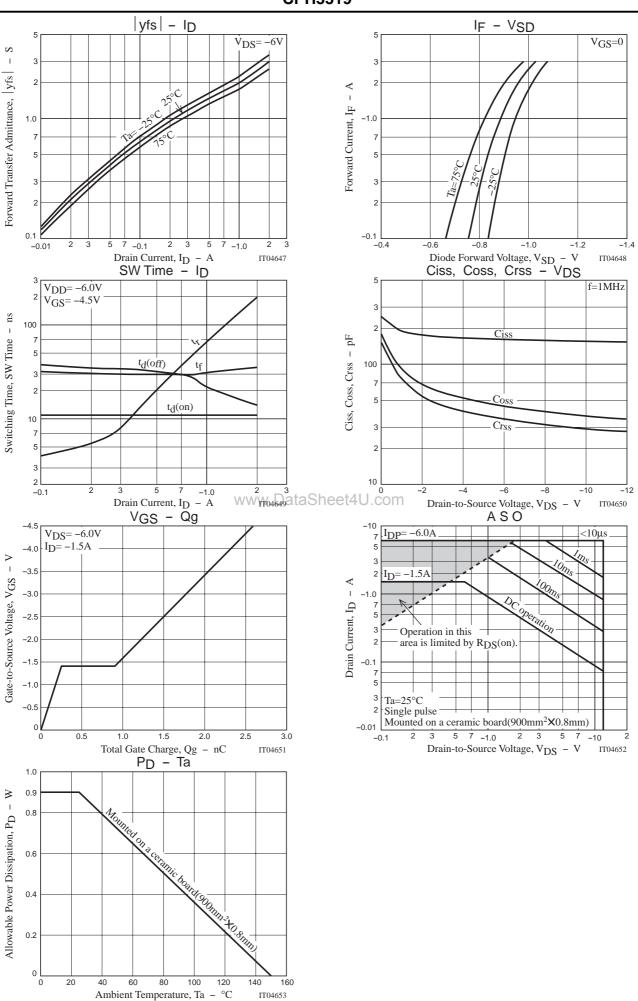




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