

### Features

- Low ON-state resistance.
- 2.5V drive.
- Mount height of 1.1mm.
- Complex Type enabling high density mount

TENTATIVE

### Absolute Maximum Ratings / Ta=25°C

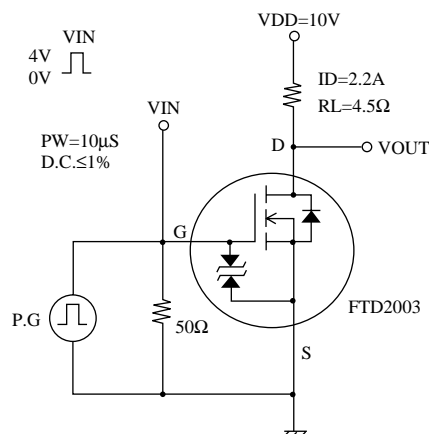
			unit
Drain to Source Voltage	VDSS	20	V
Gate to Source Voltage	VGSS	±10	V
Drain Current(DC)	ID	2.2	A
Drain Current(Pulse)	IDP	PW≤10μS, dutycycle≤1%	(8.8) A
Allowable power Dissipation	PD	Mounted on ceramic board (1000mm <sup>2</sup> × 0.8mm) 1unit	0.8 W
Total Dissipation	PT	Mounted on ceramic board (1000mm <sup>2</sup> × 0.8mm)	1.0 W
Channel Temperature	Tch	150	°C
Storage Temperature	Tstg	-55 to +150	°C

### Electrical Characteristics / Ta=25°C

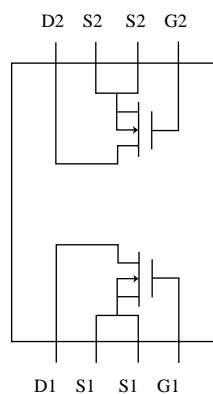
			min	typ	max	unit
Drain to Source Breakdown Voltage	V(BR)DSS	ID=1mA, VGS=0	20			V
Zero Gate Voltage Drain Current	IDSS	VDS=20V, VGS=0			10	μA
Gate to Source Leakage Current	IGSS	VGS=±8V, VDS=0			±10	μA
Cutoff Voltage	VGS(off)	VDS=10V, ID=1mA	0.4		1.3	V
Forward Transfer Admittance	yfs	VDS=10V, ID=2.2A	3.8	5.5		S
Static Drain to Source On State Resistance	RDS(on) 1	ID=2.2A, VGS=4V		100	130	mΩ
	RDS(on) 2	ID=0.5A, VGS=2.5V		130	180	mΩ
Input Capacitance	Ciss	VDS=10V, f=1MHz		170		pF
Output Capacitance	Coss	VDS=10V, f=1MHz		90		pF
Reverse Transfer Capacitance	Crss	VDS=10V, f=1MHz		43		pF
Turn-ON Delay Time	td(on)	See Specified Test Circuit		10		ns
Rise Time	tr		38	ns		
Turn-OFF Delay Time	td(off)		30	ns		
Fall Time	tf		26	ns		
Total Gate Charge	Qg		VDS=10V, VGS=10V, ID=2.2A		9.5	
Gate Source Charge	Qgs	1		nC		
Gate Drain Charge	Qgd	1.5		nC		
Diode Forward Voltage	VSD	IS=2.2A, VGS=0	1.0	1.2		V

Marking : D2003

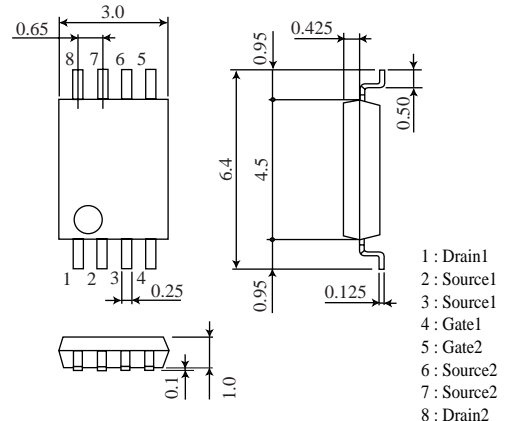
### Switching Time Test Circuit



### Electrical Connection



### Case Outline TSSOP8(unit:mm)



Specifications and information herein are subject to change without notice.

**SANYO Electric Co., Ltd. Semiconductor Business Headquarters**

TOKYO OFFICE Tokyo Bldg., 1-10,1 Chome, Ueno, taito-ku, 110 JAPAN

981221TM2fXHD