

TENTATIVE

Features

- Low ON-state resistance.
- 4V drive.
- Mount height of 1.1mm.
- Complex Type enabling high density mount

Absolute Maximum Ratings / Ta=25°C

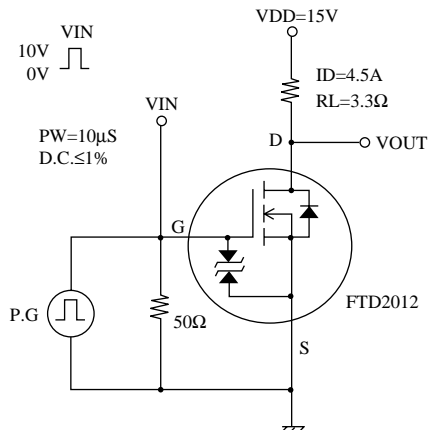
			unit
Drain to Source Voltage	V _{DSS}	30	V
Gate to Source Voltage	V _{GSS}	±20	V
Drain Current(DC)	I _D	4.5	A
Drain Current(Pulse)	I _{DP}	PW≤10μS, dutycycle≤1%	20
Allowable power Dissipation	PD	Mounted on ceramic board (1000mm ² × 0.8mm) 1unit	0.8
Total Dissipation	PT	Mounted on ceramic board (1000mm ² × 0.8mm)	1.3
Channel Temperature	T _{ch}	150	°C
Storage Temperature	T _{stg}	-55 to +150	°C

Electrical Characteristics / Ta=25°C

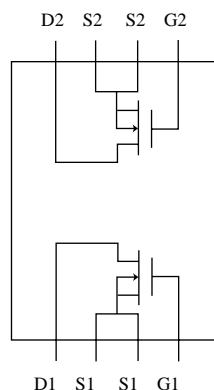
			min	typ	max	unit
Drain to Source Breakdown Voltage	V(BR) _{DSS}	I _D =1mA, V _{GS} =0	30			V
Zero Gate Voltage Drain Current	I _{DSS}	V _D =30V, V _{GS} =0			1	μA
Gate to Source Leakage Current	I _{GSS}	V _{GS} =±16V, V _D =0			±10	μA
Cutoff Voltage	V _{GS(off)}	V _D =10V, I _D =1mA	1.0		2.4	V
Forward Transfer Admittance	y _{fs}	V _D =10V, I _D =4.5A	6.3	9		S
Static Drain to Source On State Resistance	R _{DS(on) 1}	I _D =4.5A, V _{GS} =10V		26	34	mΩ
	R _{DS(on) 2}	I _D =4A, V _{GS} =4V		43	60	mΩ
Input Capacitance	C _{iss}	V _D =10V, f=1MHz		750		pF
Output Capacitance	C _{oss}	V _D =10V, f=1MHz		170		pF
Reverse Transfer Capacitance	C _{rss}	V _D =10V, f=1MHz		105		pF
Turn-ON Delay Time	t _{d(on)}	See Specified Test Circuit		12		ns
Rise Time	t _r	"		56		ns
Turn-OFF Delay Time	t _{d(off)}	"		73		ns
Fall Time	t _f	"		38		ns
Total Gate Charge	Q _g	V _D =10V, V _{GS} =10V, I _D =4.5A		18		nC
Gate Source Charge	Q _{gs}		2.3	nC		
Gate Drain Charge	Q _{gd}		3.2	nC		
Diode Forward Voltage	V _{SD}	I _S =4.5A, V _{GS} =0	0.8	1.2		V

Marking : D2012

Switching Time Test Circuit

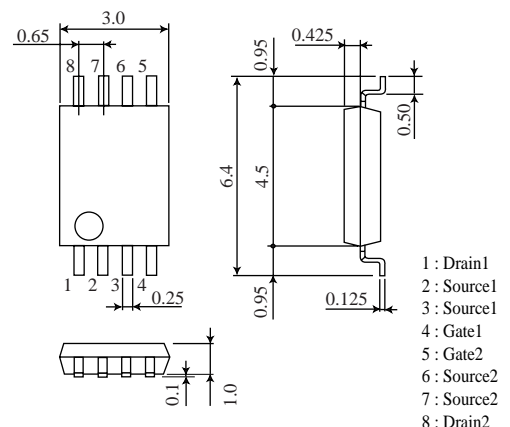


Electrical Connection



Case Outline

TSSOP8(unit:mm)



- 1 : Drain1
- 2 : Source1
- 3 : Source1
- 4 : Gate1
- 5 : Gate2
- 6 : Source2
- 7 : Source2
- 8 : Drain2

Specifications and information herein are subject to change without notice.

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