

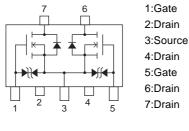


Ultrahigh-Speed Switching Applications

Features

- · Low ON resistance.
- · Very high-speed switching.
- · Complex type with 2 low-voltage-drive N-channel MOSFETs facilitating high-density mounting.

Electrical Connection

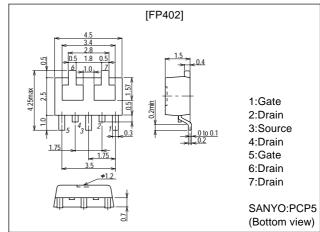


(Top view)

Package Dimensions

unit:mm

2102A



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V _{DSS}		20	V
Gate-to-Source Voltage	V _{GSS}		±15	V
Drain Current (DC)	I _D		1	Α
Drain Current (Pulse)	I _{DP}	PW≤10μs, duty cycle ≤1%	4	Α
Allowable Power Dissipation	PD	Tc=25°C, 1 unit	2.0	W
	P _D	Mounted on ceramic board (250mm ² ×0.8mm) 1 unit	0.8	W
Total Power Dissipation	PT	Mounted on ceramic board (250mm ² ×0.8mm)	1.1	W
Channel Temperature	Tch		150	°C
Storage Temperature	Tstg		-55 to +150	°C

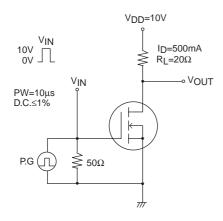
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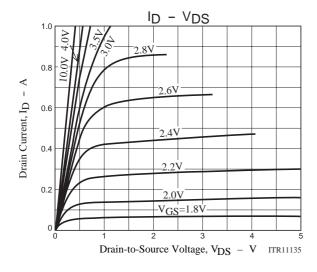
Electrical Characteristics at Ta=25°C

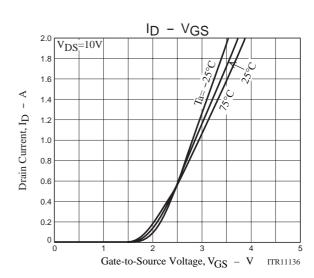
min 20	typ	max	Utill
20			Unit
			V
		100	μA
		±10	μΑ
0.8		2.0	V
0.6	1.0		S
	350	480	mΩ
	550	750	mΩ
	50		pF
	45		pF
	15		pF
	8		ns
	10		ns
	30		ns
	20		ns
	1.0		V
		0.6 1.0 350 550 50 45 15 8 10 30 20	\$\begin{array}{cccccccccccccccccccccccccccccccccccc

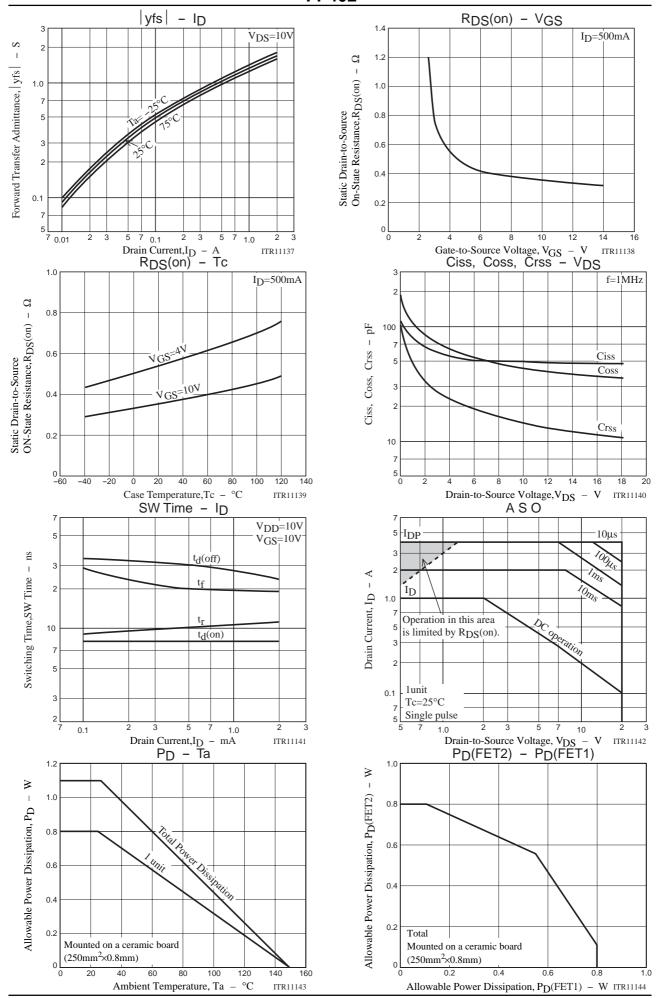
Marking:402

Switching Time Test Circuit









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