# P26F28HP2

Power MOSFETs 280V, 26A, N-channel

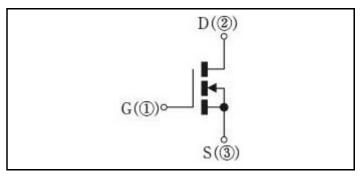
## Feature

- N-channel
- High Voltage
- High Speed Switching
- Low Ron
- Low Capacitance
- High Avalanche Durability, High di/dt Durability
- Pb free terminal
- RoHS:Yes

## OUTLINE



## **Equivalent circuit**



<b>Absolute Maximum Ratings</b>	(unless otherwise specified : Tc=25°C)
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Item	Symbol	Conditions	Ratings	Unit
Storage temperature	Tstg		-55 to 150	°C
Channel tempertature	Tch		150	°C
Drain-source voltage	V <sub>DSS</sub>		280	V
Gate-source voltage	V <sub>GSS</sub>		±30	V
Continuous drain current(DC)	I <sub>D</sub>		26	А
Continuous drain current(Peak)	I <sub>DP</sub>	Pulse width 10µs, duty=1/100	104	А
Continuous source current(DC)	ls		26	А
Total power dissipation	P <sub>T</sub>		90	W
Repetitive avalanche current	I <sub>AR</sub>	Starting Tch=25°C Tch≦150°C	26	Α
Single avalanche energy	E <sub>AS</sub>	Starting Tch=25°C Tch≦150°C	60	mJ
Repetitive avalanche energy	E <sub>AR</sub>	Starting Tch=25°C Tch≦150°C	6	mJ
Drain-source diode di/dt strength	di/dt	Is=26A, Tc=25℃	350	A/µs
Dielectric strenght	Vdis	Terminals to case, AC1min	2	kV
Mounting torque	TOR	(Recommended torque: 0.3N·m)	0.5	N∙m

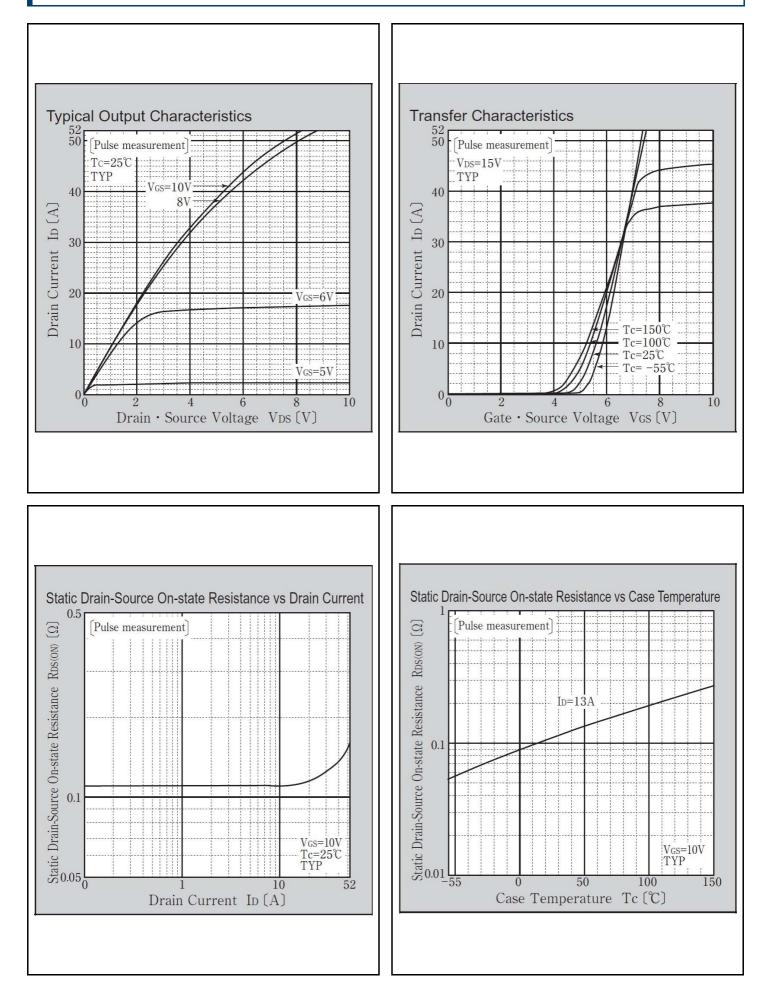
\* : See the original Specifications

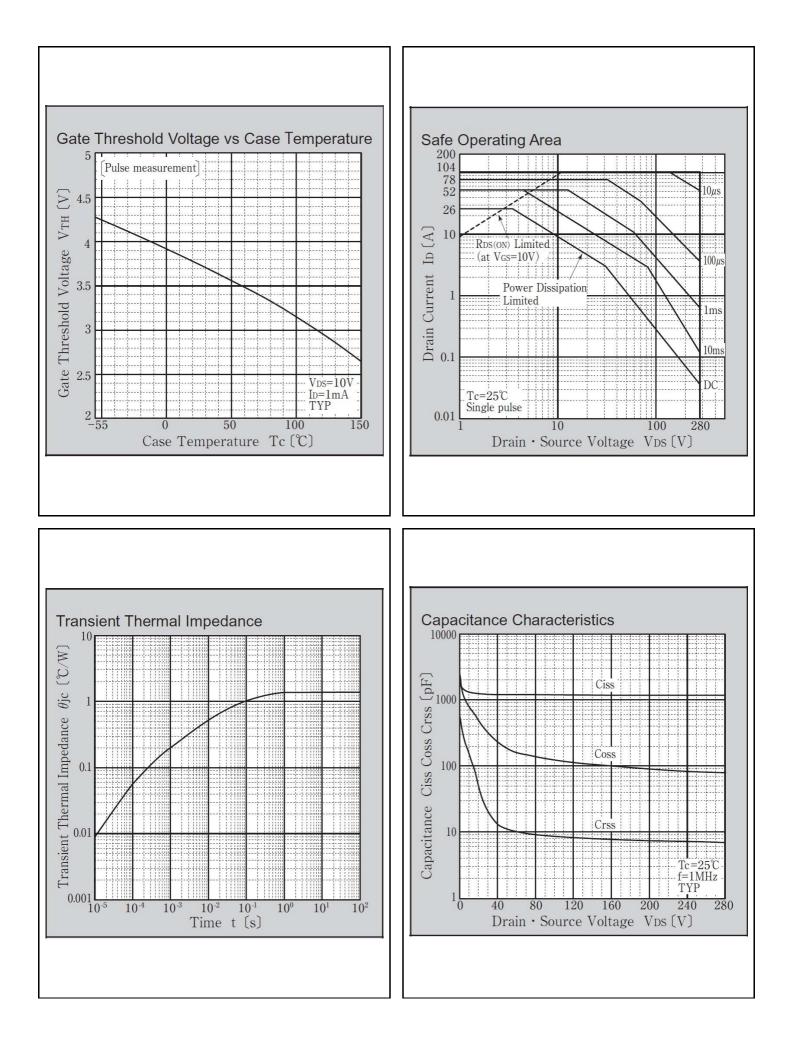
<b>Electrical Characteristics</b>	(unless otherwise specified : Tc=25°C)

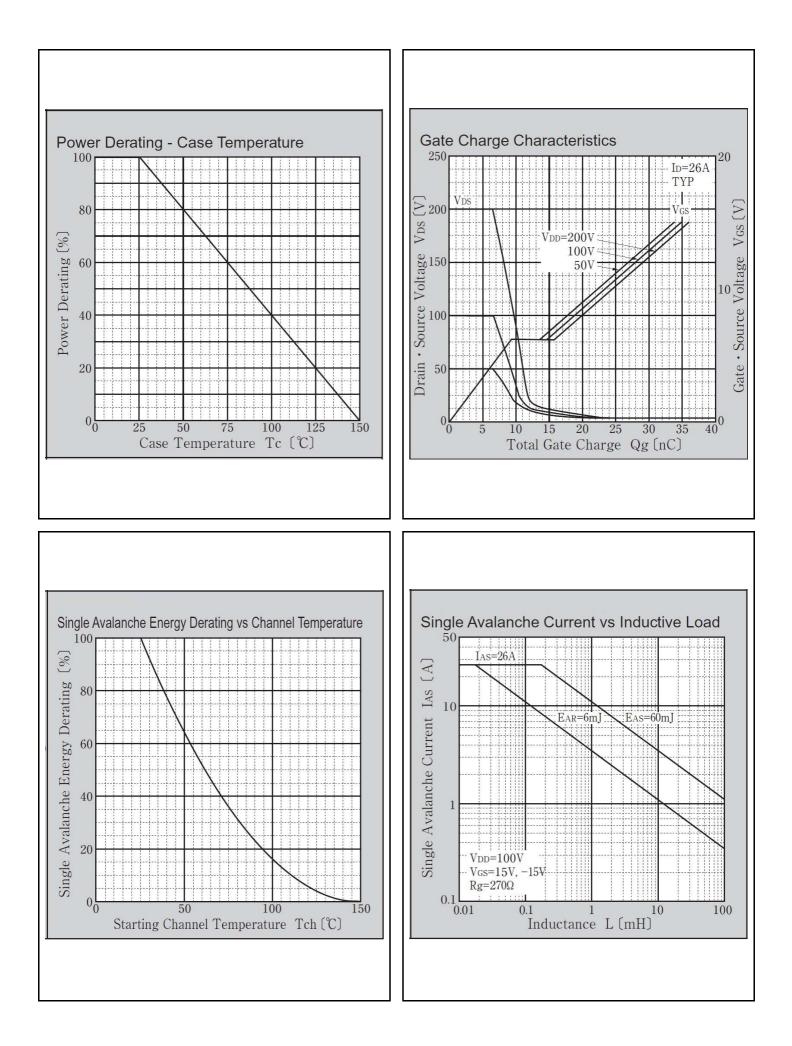
ltem	Symbol	Conditions		Ratings		
			MIN	ТҮР	MAX	Unit
Drain-Source breakdown voltage	V <sub>(BR)DSS</sub>	ID=1mA, VGS=0V	280			V
Zero gate voltage drain current	I <sub>DSS</sub>	VDS=280V, VGS=0V			100	μA
Gate-source leakage current	I <sub>GSS</sub>	VGS=±30V, VDS=0V			±0.1	μA
Forward transconductance	9fs	ID=13A, VDS=10V	8.8	17.7		S
Static drain-source on-state resistance	R <sub>DS(ON)</sub>	ID=13A, VGS=10V		0.11	0.15	Ω
Gate threshold voltage	Vth	ID=1mA, VDS=10V	3	3.75	4.5	V
Source-drain diode forward voltage	$V_{SD}$	IS=13A, VGS=0V			1.5	V
Thermal resistance	Rth(j-c)	Junction to case			1.39	°C/W
Total gate charge	Qg	VDD=200V, VGS=10V, ID=26A		24.5		nC
Input capacitance	Ciss	VDS=50V, VGS=0V, f=1MHz		1200		pF
Reverce transfer capacitnce	Crss	VDS=50V, VGS=0V, f=1MHz		11		pF
Output capacitance	Coss	VDS=50V, VGS=0V, f=1MHz		185		pF
Turn-on delay time	td(on)	ID=13A, RL=11.5Ω, VDD=150V, Rg=50Ω, VGS(+)=10V, VGS(-)=0V		26		ns
Rise time	tr	ID=13A, RL=11.5Ω, VDD=150V, Rg=50Ω, VGS(+)=10V, VGS(-)=0V		56		ns
Turn-off delay time	td(off)	ID=13A, RL=11.5Ω, VDD=150V, Rg=50Ω, VGS(+)=10V, VGS(-)=0V		83		ns
Fall time	tf	ID=13A, RL=11.5Ω, VDD=150V, Rg=50Ω, VGS(+)=10V, VGS(-)=0V		40		ns

\* : See the original Specifications

## CHARACTERISTIC DIAGRAMS



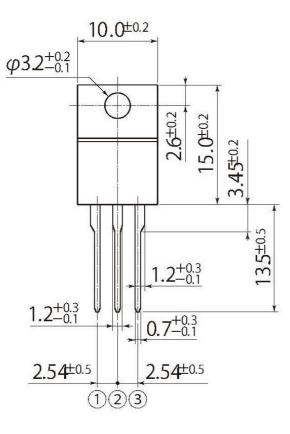


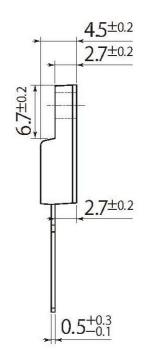


unit:mm

scale: 2/1

18	JEDEC Code	-		
	JEITA Code	SC-91		
	House Name	FTO-220AG(3pin)		





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