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FTP08N06A Datasheet PDF

Part Number	FTP08N06A
Description	N-Channel MOSFET
Manufacture	IPS
Total Page	11 Pages
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Features: Datasheet pdf FTP08N06A N-Channel MOSFET Applications : • Automotive • DC Motor Control    Class D Amplifier • Uninterruptible Power Supply (UPS) Features: • RoHS Compliant • Low ON Resistance • Low Gate Charge • Peak Current vs Pulse Width Curve • Inductive Switching Curves Ordering Information PART NUMBER FTP08N06A PACKAGE TO-220 BRAND FTP08N06A Pb Lead Free Package and Finish V DSS 55V RDS(ON) (Max.) 8 mΩ ID 120A D G DS TO-220 Not to Scale G S Absolute Maximum Ratings TC=25 °C unless otherwise specified Symbol Parameter VDSS ID ID@ 100 °C IDM PD Drain-to-Source Voltage Continuous Drain Current Continuous Drain Current Pulsed Drain Current, VGS@ 10V Power Dissipation Derating Factor above 25 °C (NOTE *1) (NOTE *2) VGS EAS IAS dv/dt Gate-to-Source Voltage Single Pulse Avalanche Energy L=0.27 mH, ID=75 Amps Pulsed Avalanche Rating Peak Diode Recovery dv/dt (NOTE *3) TL TPKG TJ and TSTG Maximum Temperature for Soldering Leads at 0.063in (1.6mm) from Case for 10 seconds Package B.

Keywords: FTP08N06A, datasheet, pdf, IPS, N-Channel, MOSFET, stock, pinout, distributor, price, schematic, inventory, databook, Electronic, Components, Parameters, parts, cross reference, chip, Semiconductor, circuit, Electric, manual, substitute, Equivalent



N-Channel MOSFET

 Lead Free Package and Finish

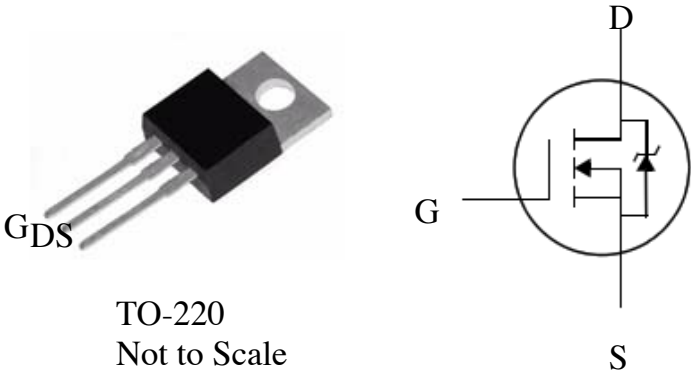
Applications:

- Automotive
- DC Motor Control
- Class D Amplifier
- Uninterruptible Power Supply (UPS)

Features:

- RoHS Compliant
- Low ON Resistance
- Low Gate Charge
- Peak Current vs Pulse Width Curve
- Inductive Switching Curves

V_{DSS}	$R_{DS(ON)}$ (Max.)	I_D
55V	8 mΩ	120A



Ordering Information

PART NUMBER	PACKAGE	BRAND
FTP08N06A	TO-220	FTP08N06A

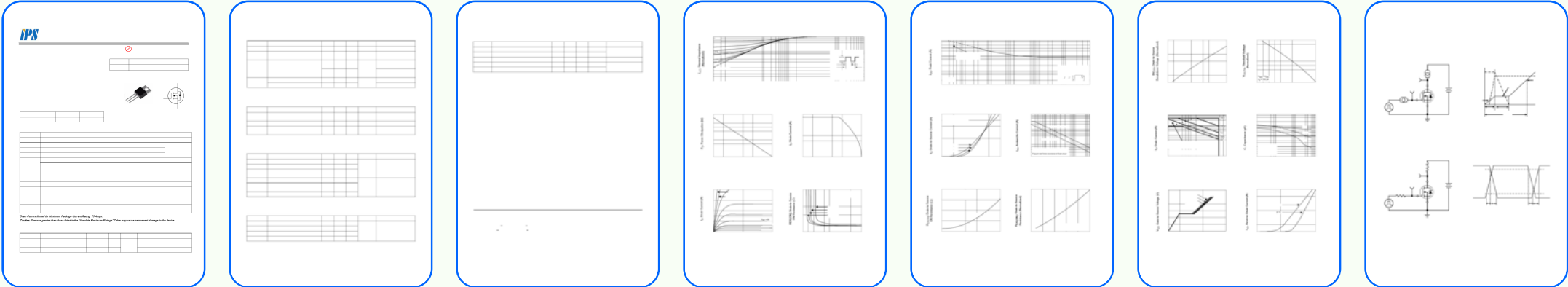
Absolute Maximum Ratings $T_C=25\text{ }^{\circ}\text{C}$ unless otherwise specified

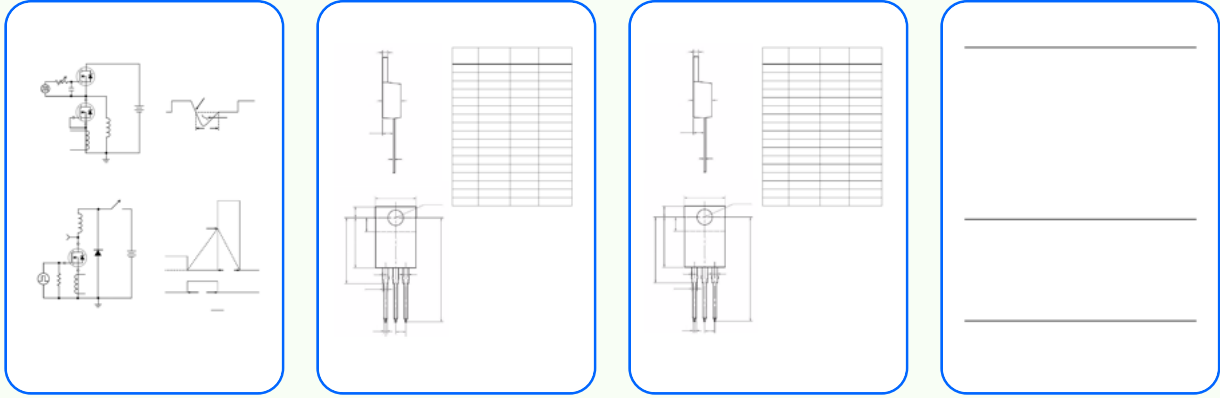
Symbol	Parameter	FTP08N06A	Units
V_{DSS}	Drain-to-Source Voltage (NOTE *1)	55	V
I_D	Continuous Drain Current	120*	A
$I_D @ 100\text{ }^{\circ}\text{C}$	Continuous Drain Current	Figure 3	
I_{DM}	Pulsed Drain Current, $V_{GS} @ 10\text{V}$ (NOTE *2)	Figure 6	
P_D	Power Dissipation	230	W
	Derating Factor above $25\text{ }^{\circ}\text{C}$	1.54	W/ $^{\circ}\text{C}$
V_{GS}	Gate-to-Source Voltage	± 20	V
E_{AS}	Single Pulse Avalanche Engergy $L=0.27\text{ mH}, I_D=75\text{ Amps}$	760	mJ
I_{AS}	Pulsed Avalanche Rating	Figure 8	
dv/dt	Peak Diode Recovery dv/dt (NOTE *3)	5.0	V/ ns
T_L T_{PKG}	Maximum Temperature for Soldering Leads at 0.063in (1.6mm) from Case for 10 seconds Package Body for 10 seconds	300 260	$^{\circ}\text{C}$
T_J and T_{STG}	Operating Junction and Storage Temperature Range	-55 to 175	

***Drain Current limited by Maximum Package Current Rating, 75 Amps.**
*Drain Current limited by Maximum Package Current Rating, 75 Amps.
Caution: Stresses greater than those listed in the "Absolute Maximum Ratings" Table may cause permanent damage to the device.
Caution: Stresses greater than those listed in the "Absolute Maximum Ratings" Table may cause permanent damage to the device.

Thermal Resistance

Symbol	Parameter	Min.	Typ.	Max.	Units	Test Conditions
$R_{\theta JC}$	Junction-to-Case	--	--	0.65	$^{\circ}\text{C/W}$	Water cooled heatsink, PD adjusted for a peak junction temperature of $+175^{\circ}\text{C}$.
$R_{\theta JA}$	Junction-to-Ambient	--	--	62		1 cubic foot chamber, free air.





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Index : [0](#) [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)