



TO-220F Plastic-Encapsulate Transistors

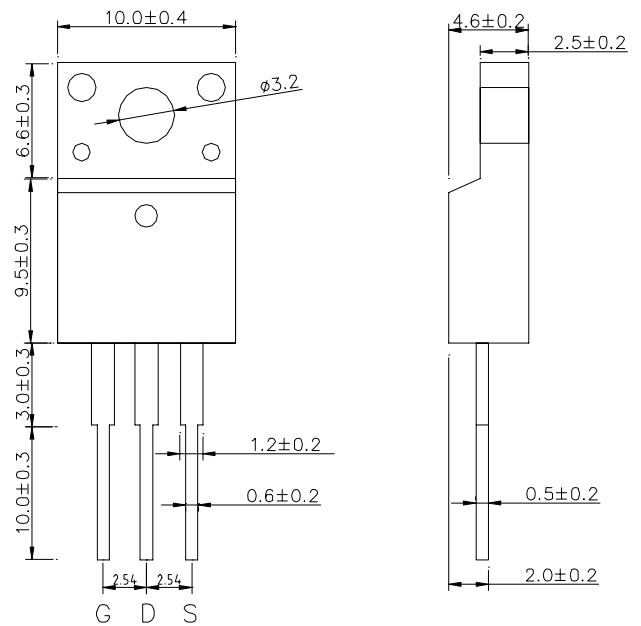
HF4N60 Feature

- N-Channel Enhancement Model MOSFET
- 600V/4.0A, RDS(on)=2.2Ω(MAX) @VGS=10V
- Super high dense cell design for extremely low RDS(on)
- Reliable and Rugged
- Fast switching
- High thermal cycling performance
- Low thermal resistance

Application

- Switching regulators, Switching converters
- Switch mode power supplies(SMPS)

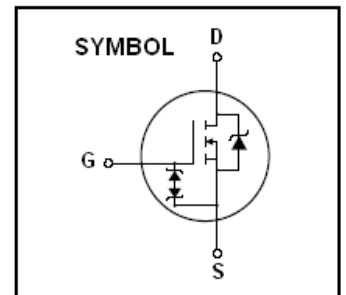
HF4N60 TO-220F



ABSOLUTE MAXIMUM RATINGS

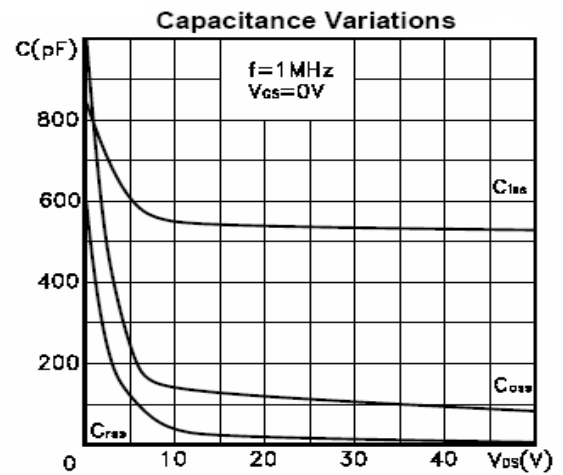
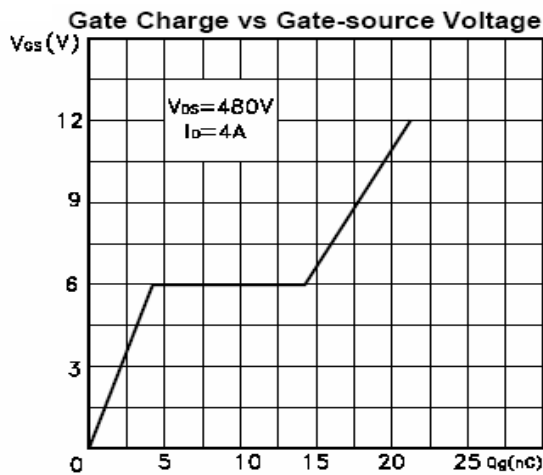
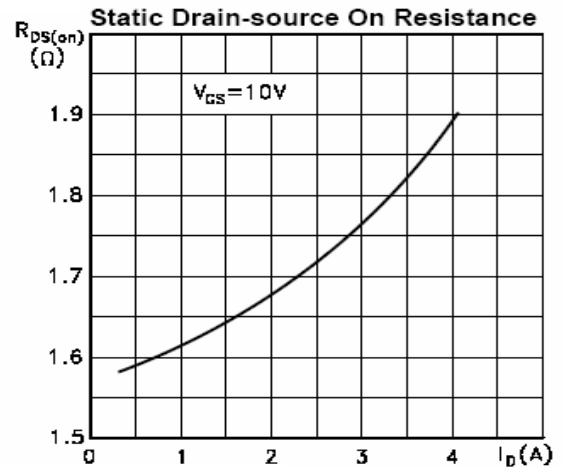
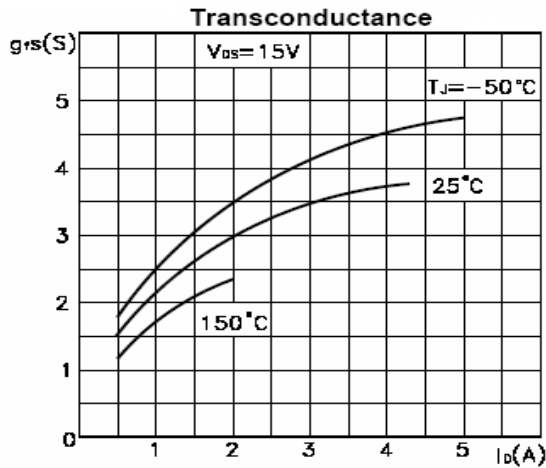
(Ta=25°C Unless otherwise noted)

Parameter	Symbol	Limit	Units
Drain-source Voltage	VDS	600	V
Gate-source Voltage	VGS	30	V
Drain-Current Continuous, VGS@10V	ID@TC=25°C	4	A
Drain-Current Continuous, VGS@10V	ID@TC=150°C	2	A

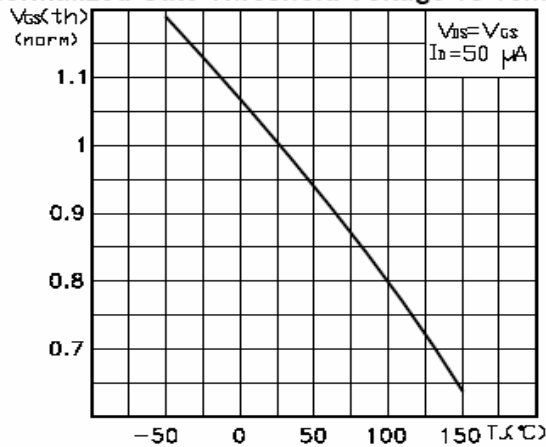


ELECTRICAL CHARACTERISTICS (Ta=25°C Unless otherwise noted)

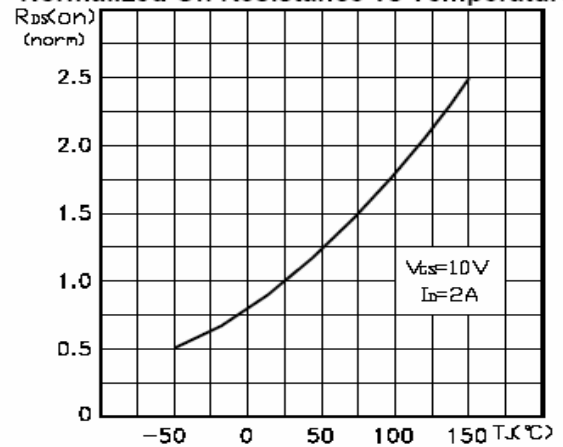
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
Off Characteristics						
Drain to Source Breakdown Voltage	BVDSS	600	-	-	V	VGS=0V, ID=250μA
Zero-Gate Voltage Drain Current	IDSS	-	-	100	μ A	VDS=600V, VGS=0V
Gate Body Leakage Current	IGSS	-	-	100	nA	VGS=30V, VDS=0V
On Characteristics						
Gate Threshold Voltage	VGS(th)	2	-	5	v	VGS(th)=VDS, ID=250μA
Static Drain-source On-Resistance	RDS(ON)	-	-	2.2	Ω	VGS=10V, ID=2.0A
Drain-Source Diode Characteristics and Maximum Ratings						
Drain-Source Diode Forward Voltage	VSD	-	-	2.7	v	VGS=0V, IS=4.0A



Normalized Gate Threshold Voltage vs Temp.

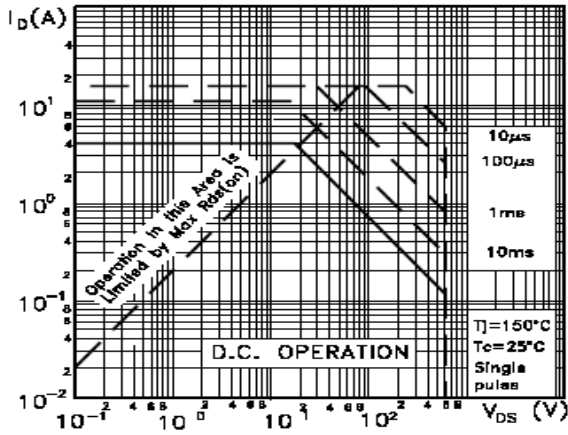


Normalized On Resistance vs Temperature

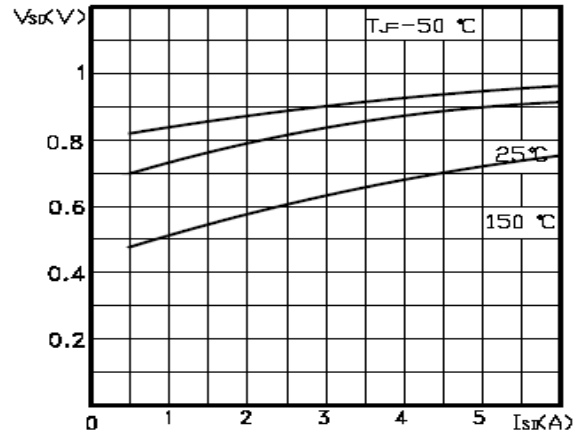




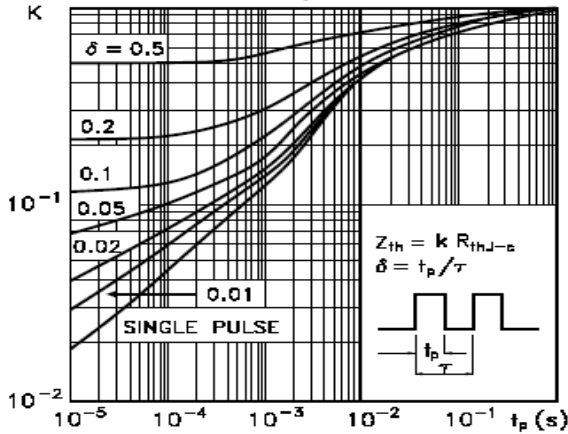
Safe Operating Area



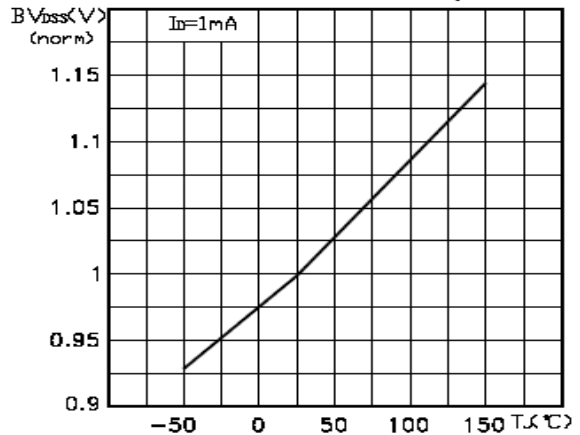
Source-drain Diode Forward Characteristics



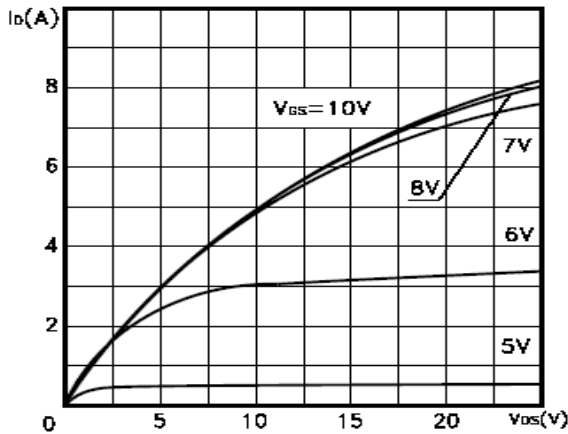
Thermal Impedance



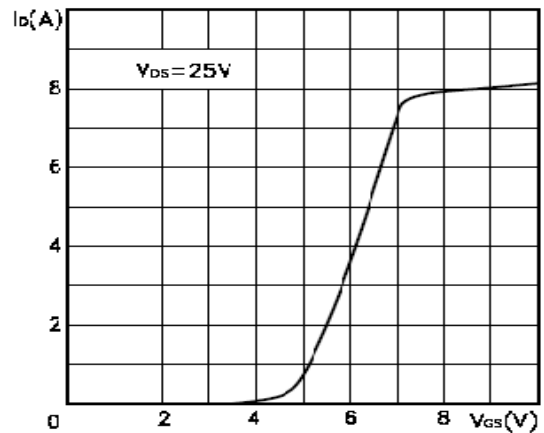
Normalized BVDS vs Temperature



Output Characteristics



Transfer Characteristics



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