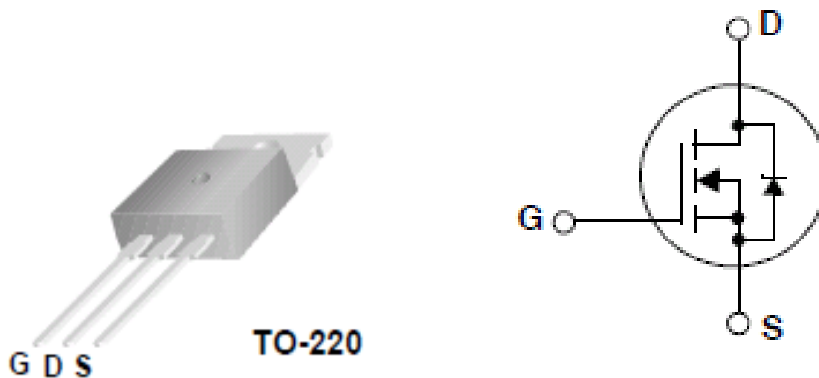


Chinahaiso electronic Co.Ltd http://www.chinahaiso.com	MOSFET
	GFP 740

GFP 740

General description

- These N-channel enhancement mode silicon gate power field effect transistor is an advanced power MOSFET designed, tested and guaranteed to withstand a specified level of energy in the breakdown avalanche mode of operation
- All of these power MOSFETs are designed for applications such as switching convertors relay drivers. These types can be operated directly from integrated circuits.



Absolute maximum ratings T=25°C unless otherwise noted

Characteristics	Symbol	Value	Units
Drain-Source Voltage	BV_{DSS}	400	V
Drain Current	I_D	10	A
Gate-Source Voltage	V_{GS}	± 20	V
Single Pulsed Avalanche Energy	E_{AS}	520	mJ
Power Dissipation	P_D	125	W
Operating and Storage Temperature Range	T_{STG}	-55 -150	°C
Thermal Resistance ,Junction-to Case	$R_{\theta JC}$	1.67	°C/W
Drain-source Diode Forward Voltage	V_{SD}	1.4	V

Parameter	Symbol	Min	Typ.	Max	Units	Test conditions
Gate threshold voltage	$V_{GS(th)}$	2.0	-	4.0	V	$V_{DS}=V_{GS}$ $I_D=250\mu A$
Gate-Body leakage Current	I_{GSS}	-	-	± 100	nA	$V_{GS}=\pm 20V$, $V_{DS}=0V$
Zero Gate voltage Drain current	I_{DSS}	-	-	10	μA	$V_{DS}=400V$, $V_{GS}=0V$
Static drain-source on-resistance	$R_{DS(on)}$	-	0.47	0.55	Ω	$V_{GS}=10V$, $I_D=5A$
Input capacitance	C_{iss}	-	1250	-	pF	$V_{GS}=0V$, $V_{DS}=25V$, $F=1.0MHz$
Output capacitance	C_{oss}	-	300	-		
Reverse transfer capacitance	C_{rss}	-	80	-		
Turn-on delay time	$t_d(on)$	-	15	21	ns	$V_{DD}=200V$, $I_D=10A$, $R_G=9.1\Omega$ $R_L=35\Omega$ $V_{GS}=10V$
Turn-on rise time	t_r	-	25	41		
Turn-off delay time	$t_d(off)$	-	52	75		
Turn-off fall time	t_f	-	25	36		
Total Gate charge	Q_g	-	41	63	nC	$V_{DS}=320V$, $V_{GS}=10V$, $I_D=10A$,
Gate-source charge	Q_{gs}	-	6.5	-		
Gate-drain charge	Q_{gd}	-	23	-		