

Chinahaiso electronic Co.Ltd http://www.chinahaiso.com	MOSFET
	GFP 50N06

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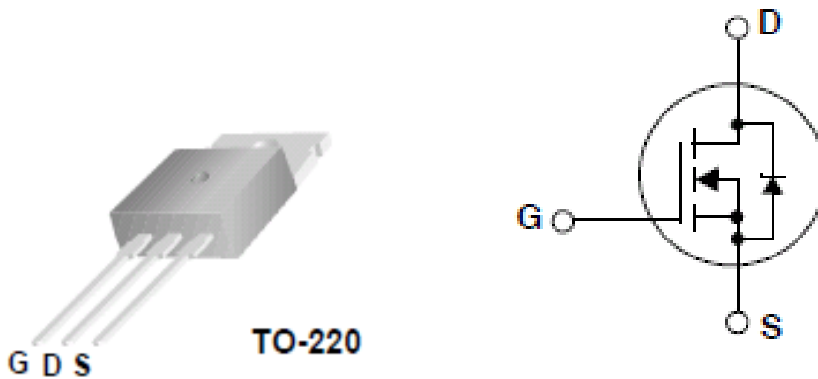
FEATURES (参数)

Low $R_{D_s(on)}$ (0.023 Ω) @ $V_{gs}=10V$

Low Gate Charge (Typical 39 nC)

Low C_{rss} (typical 110 pF)

Maximum Junction Temperature range (175 $^{\circ}C$)



Absolute maximum ratings $T=25^{\circ}C$ unless otherwise noted

Characteristics	Symbol	Value	Units
Drain-Source Voltage	BV_{DSS}	60	V
Drain Current	I_D	50	A
Gate-Source Voltage	V_{GS}	± 20	V
Single Pulsed Avalanche Energy	E_{AS}	470	mJ
Power Dissipation	P_D	130	W
Operating and Storage Temperature Range	T_{STG}	-55 -175	$^{\circ}C$
Thermal Resistance ,Junction-to Case	$R_{\theta JC}$	1.15	$^{\circ}C/W$
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	$V_{DS}=60V$, $V_{GS}=0V$
Static drain-source on-resistance	$R_{DS(on)}$	-	18	23	m Ω	$V_{GS}=10V$, $I_D=25A$
Input capacitance	C_{iss}	-	880	1140	pF	$V_{GS}=0V$, $V_{DS}=25V$, $F=1.0MHz$
Output capacitance	C_{oss}	-	430	560		
Reverse transfer capacitance	C_{rss}	-	110	140		
Turn-on delay time	td (on)	-	60	130	ns	$V_{DD}=30V$, $I_D=25A$, $R_G=50\Omega$
Turn-on rise time	t_r	-	185	380		
Turn-off delay time	td (off)	-	75	160		
Turn-off fall time	t_f	-	60	130		
Total Gate charge	Q_g	-	39	45	nC	$V_{DS}=48V$, $V_{GS}=10V$, $I_D=50A$,
Gate-source charge	Q_{gs}	-	9.5	-		
Gate-drain charge	Q_{gd}	-	1.3	-		