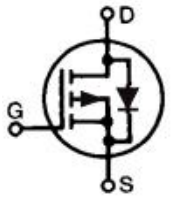
isc P-Channel MOSFET Transistor IRF9610



pin 1.Gate
2.Drain
3.Source

TO-220 package

FEATURES

·Drain Current -I_D= -1.8A@ T_C=25℃

·Drain Source Voltage -V_{DSS}=-200V(Min)

·Static Drain-Source On-Resistance

-$R_{DS(on)}$ = 3Ω(Max)@V_{GS}= -10V

DESCRIPTION

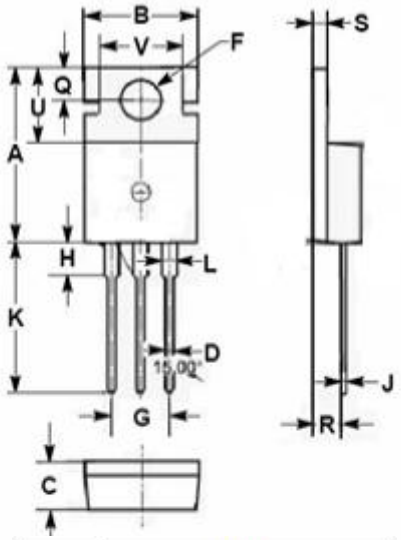
• Motor drive, DC-DC converter, power switch and solenoid drive.

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	-200	V
V_{GS}	Gate-Source Voltage-Continuous	±20	V
I_D	Drain Current-Continuous	-1.8	A
I_{DM}	Drain Current-Single Pulse	-7.0	A
P_D	Total Dissipation @T_C=25℃	20	W
T_J	Max. Operating Junction Temperature	150	℃
T_{stg}	Storage Temperature	-55~150	℃

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal Resistance, Junction to Case	6.25	℃/W



DIM	mm		
	MIN	TYP.	MAX
A	15.50	15.70	15.90
B	9.80	10.00	10.20
C	4.20	4.35	4.50
D	0.70	0.80	0.90
F	3.40	3.55	3.70
G	4.98	5.08	5.18
H	2.68	2.79	2.90
J	0.44	0.52	0.60
K	12.80	13.10	13.40
L	1.20	1.32	1.45
Q	2.70	2.80	2.90
R	2.30	2.50	2.70
S	1.29	1.32	1.35
U	6.45	6.55	6.65
V	8.66	8.76	8.86

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ELECTRICAL CHARACTERISTICS（T_C=25℃ unless otherwise specified）

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{(BR)DSS}$	Drain-Source Breakdown Voltage	V_{GS}= 0; I_D=-0.25mA	-200	--	V
I_{DSS}	Zero Gate Voltage Drain Current	V_{DS}= -200V; V_{GS}= 0	--	-100	uA
I_{GSS}	Gate-Body Leakage Current	V_{GS}= ±20V;V_{DS}= 0	--	±100	nA
$V_{GS(th)}$	Gate Threshold Voltage	V_{DS}= V_{GS}; I_D= -0.25mA	-2.0	-4.0	V
$R_{DS(on)}$	Drain-Source On-Resistance	V_{GS}= -10V; I_D= -0.9A	--	3.0	Ω
V_{SD}	Forward On-Voltage	I_S= -1.8A; V_{GS}= 0	--	-5.8	V

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