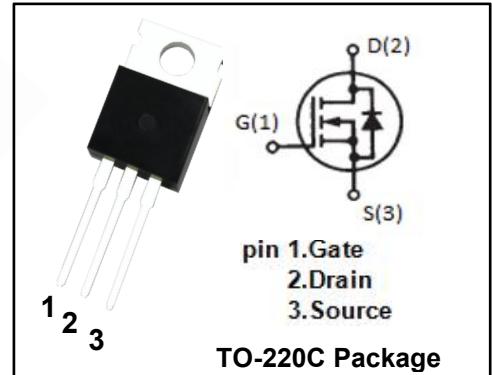


isc N-Channel MOSFET Transistor

BUZ11

FEATURES

- Drain Current - $I_D = 30A$ @ $T_c=25^\circ C$
- Drain Source Voltage - $V_{DSS} = 50V$ (Min)
- Static Drain-Source On-Resistance
 $-R_{DS(on)} = 0.04\Omega$ (Max)@ $V_{GS} = 10V$

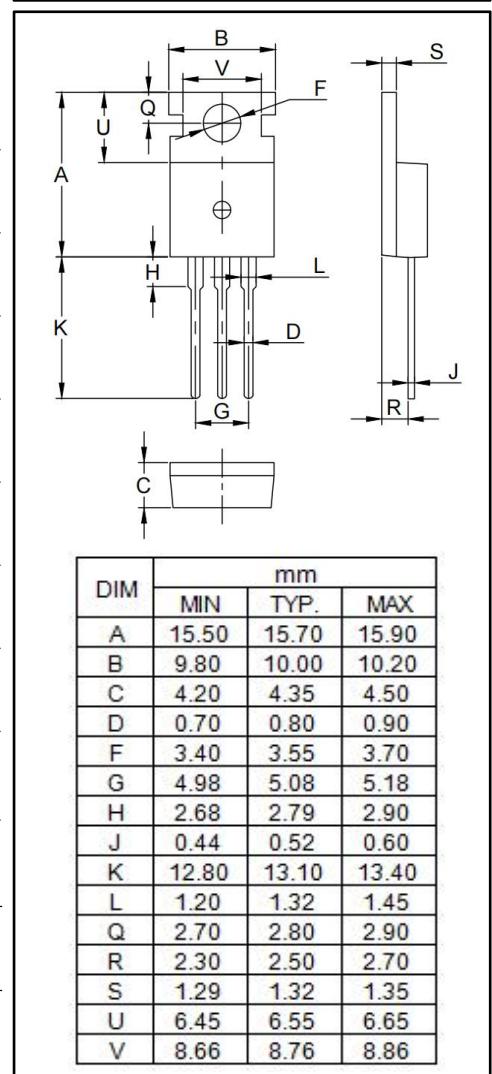


DESCRIPTION

- Motor control and drive
- Battery management
- General Power Switching

ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ C$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	50	V
V_{GS}	Gate-Source Voltage-Continuous	± 20	V
I_D	Continuous Drain Current	30	A
I_{DM}	Drain Current(Pulse)	120	A
P_D	Total Dissipation @ $T_c=25^\circ C$	75	W
T_J	Max. Operating Junction Temperature	-55~150	°C
T_{stg}	Storage Temperature	-55~150	°C



THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th,j-c}$	Thermal Resistance, Junction to Case	1.67	°C/W

isc N-Channel MOSFET Transistor**BUZ11****ELECTRICAL CHARACTERISTICS (T_c=25°C unless otherwise specified)**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	50	--	--	V
V _{GS(th)}	Gate Threshold Voltage	V _{GS} = V _{DS} ; I _D = 1mA	2.1	--	4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =19A	--	--	0.04	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V; V _{DS} = 0	--	--	±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 50V; V _{GS} = 0	--	--	1	uA
V _{SD}	Forward On-Voltage	I _S = 60A; V _{GS} = 0	--	--	1.8	V

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