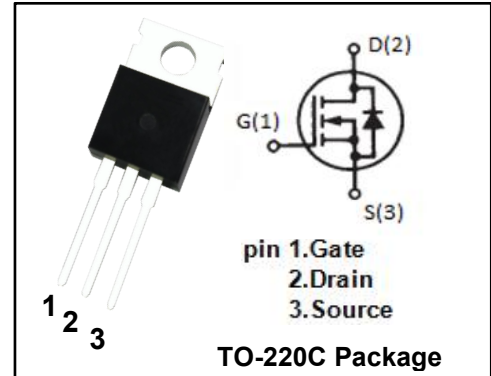


isc N-Channel MOSFET Transistor
IRFB7545
FEATURES

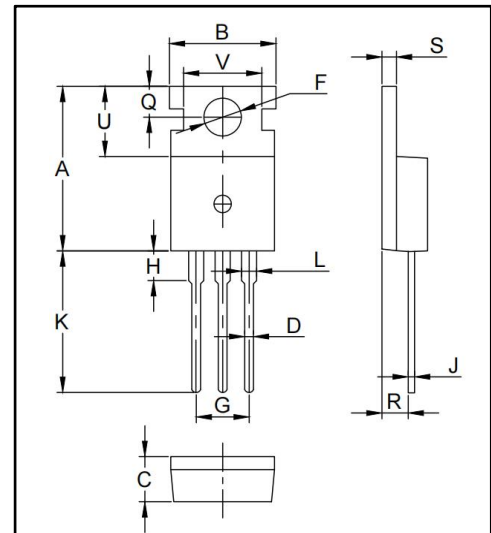
- Drain Current $-I_D = 95A @ T_C = 25^\circ C$
- Drain Source Voltage $-V_{DSS} = 60V(\text{Min})$
- Static Drain-Source On-Resistance
 $-R_{DS(on)} = 5.9m\Omega(\text{Max}) @ V_{GS} = 10V$

DESCRIPTION

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


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

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	60	V
V_{GS}	Gate-Source Voltage-Continuous	± 20	V
I_D	Drain Current-Continuous	95	A
I_{DM}	Drain Current-Single Pulse	380	A
P_D	Total Dissipation @ $T_C = 25^\circ C$	125	W
T_J	Operating Junction Temperature	175	$^\circ C$
T_{stg}	Storage Temperature	-55~175	$^\circ C$



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

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	1.21	$^\circ C/W$

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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	60	--	--	V
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =60V; V _{GS} = 0 V	--	--	1	uA
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V; V _{DS} = 0 V	--	--	±100	nA
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D = 0.25mA	2.0	--	4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =57A	--	--	5.9	mΩ
V _{SD}	Forward On-Voltage	I _S =57A; V _{GS} = 0 V	--	--	1.2	V

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