isc N-Channel MOSFET Transistor FS10KMH-03

FEATURES

- Drain Current : I_D= 10A@ T_C=25℃

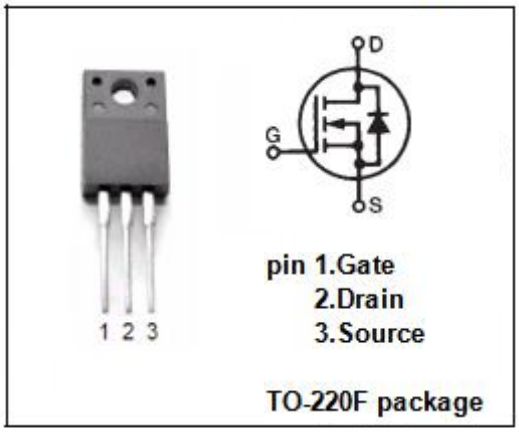
Drain Source Voltage

: V_{DSS}= 30V(Min)

- Static Drain-Source On-Resistance

: $R_{DS(on)}$ = 92mΩ (Max) @V_{GS}=4V

- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



DESCRIPTION

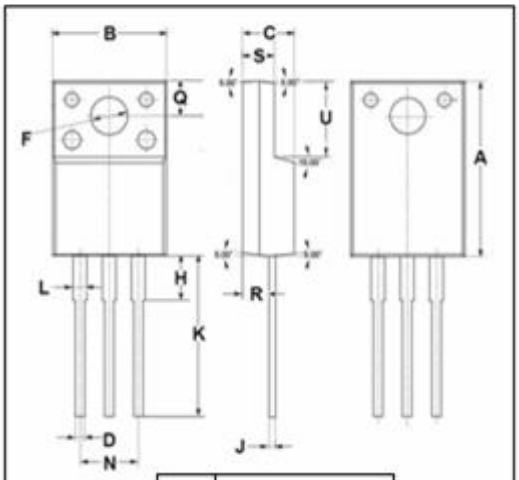
- motor drive, DC-DC converter, power switch and solenoid drive.

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	30	V
V_{GS}	Gate-Source Voltage-Continuous	±10	V
I_D	Drain Current-Continuous	10	A
I_{DM}	Drain Current-Single Pluse	40	A
P_D	Total Dissipation @T_C=25℃	15	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	8.3	℃/W



DIM	mm MIN	mm MAX
A	14.95	15.05
B	10.00	10.10
C	4.40	4.60
D	0.75	0.90
F	3.10	3.30
H	3.70	3.90
J	0.50	0.70
K	13.4	13.6
L	1.10	1.30
N	5.00	5.20
Q	2.70	2.90
R	2.20	2.40
S	2.65	2.90
U	6.40	6.60

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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= 1mA	30	--	V
$V_{GS(th)}$	Gate Threshold Voltage	V_{DS}= 10V; I_D=1mA	0.6	1.2	V
$R_{DS(on)1}$	Drain-Source On-Resistance	V_{GS}= 4V; I_D= 5A	--	92	mΩ
$R_{DS(on)2}$	Drain-Source On-Resistance	V_{GS}= 2.5V; I_D= 5A	--	141	mΩ
I_{GSS}	Gate-Body Leakage Current	V_{GS}= ±10V;V_{DS}= 0	--	±0.1	uA
I_{DSS}	Zero Gate Voltage Drain Current	V_{DS}= 30V; V_{GS}= 0	--	0.1	mA
V_{SD}	Forward On-Voltage	I_S= 5A; V_{GS}= 0	--	1.5	V

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