

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

FDP2570

FEATURES

- Drain Current : I_D =22A@ T_C=25 $^\circ\!\!\mathrm{C}$
- Drain Source Voltage
 : V_{DSS}=150V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} =80m Ω (Max) @V_{GS}= 10V
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

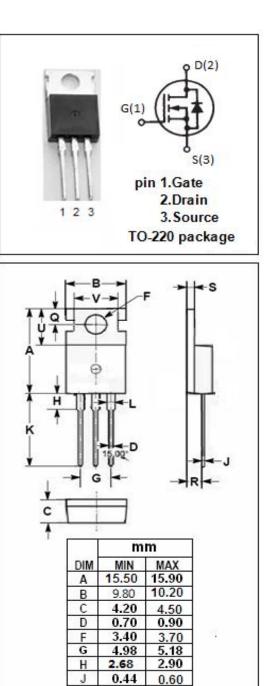
DESCRIPTION

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

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	150	V
V _{GS}	Gate-Source Voltage-Continuous	±20	V
ID	Drain Current-Continuous	22	А
I _{DM}	Drain Current-Single Pluse	50	A
PD	Total Dissipation @T _C =25℃	93	W
TJ	Max. Operating Junction Temperature	-55~175	°C
T _{stg}	Storage Temperature	-55~175	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.6	°C /W



K

I

Q

R

S

U

v

12.80

1.20

2.70

1.29

6.45

8.66

13.40

1.45

2.90

2.70

1.35

6.65

8.86



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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	150	-	V
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 = 11A V_{GS} =6V; I _D = 10A	-	80 90	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0	-	±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =120V; V _{GS} = 0	-	1	uA
Vsd	Forward On-Voltage	I _S =11A; V _{GS} = 0	-	1.3	V

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