

isc N-Channel MOSFET Transistor

FDD2570

FEATURES

- Drain Current $-I_D=4.7A@T_C=25^{\circ}C$
- Drain Source Voltage $-V_{DSS}=150V(\text{Min})$
- Static Drain-Source On-Resistance
 $-R_{DS(on)}=80m\Omega(\text{Max})$

DESCRIPTION

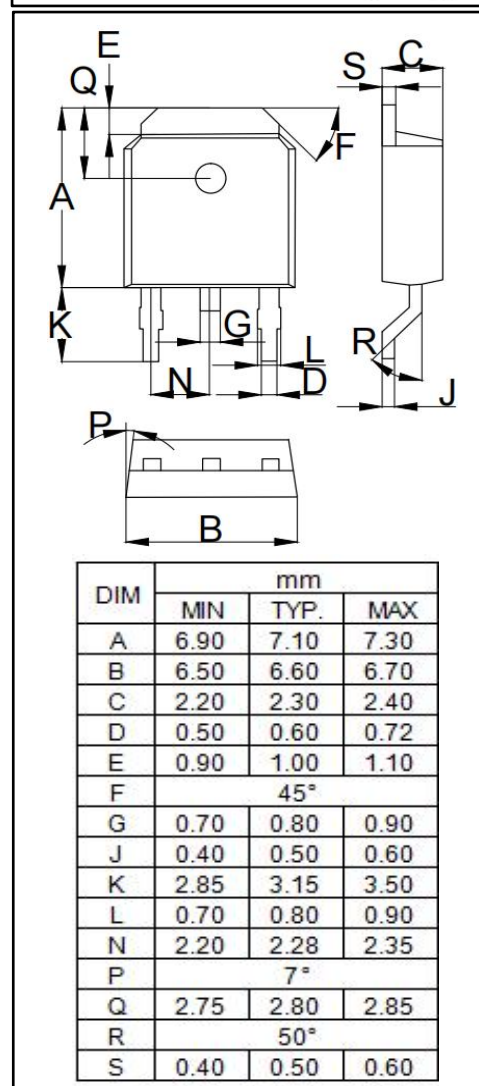
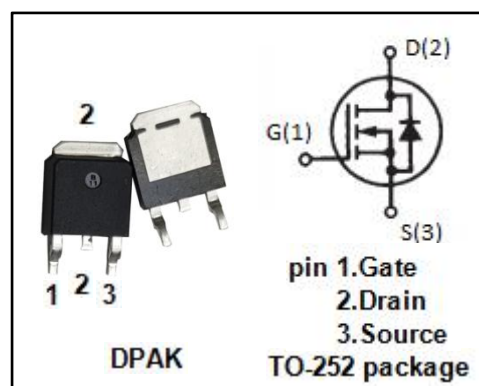
- Motor drive, DC-DC converter, power switch and solenoid drive.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	150	V
V_{GS}	Gate-Source Voltage-Continuous	± 20	V
I_D	Drain Current-Continuous	4.7	A
I_{DM}	Drain Current-Single Pluse	30	A
P_D	Total Dissipation @ $T_C=25^{\circ}C$	70	W
T_J	Max. Operating Junction Temperature	150	$^{\circ}C$
T_{stg}	Storage Temperature	-55~150	$^{\circ}C$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th j-c}$	Thermal Resistance, Junction to Case	1.8	$^{\circ}C/W$



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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	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 =4.7A	--	60	80	mΩ
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =6V; I _D =4.5A	--	63	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
V _{SD}	Forward On-Voltage	I _S =2.7A; V _{GS} = 0	--	--	1.2	V

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