

isc N-Channel MOSFET Transistor
FDD2572
FEATURES

- Drain Current $-I_D=29A@T_C=25^{\circ}C$
- Drain Source Voltage $-V_{DSS}=150V(\text{Min})$
- Static Drain-Source On-Resistance
 $-R_{DS(on)}=54m\Omega(\text{Max})$

DESCRIPTION

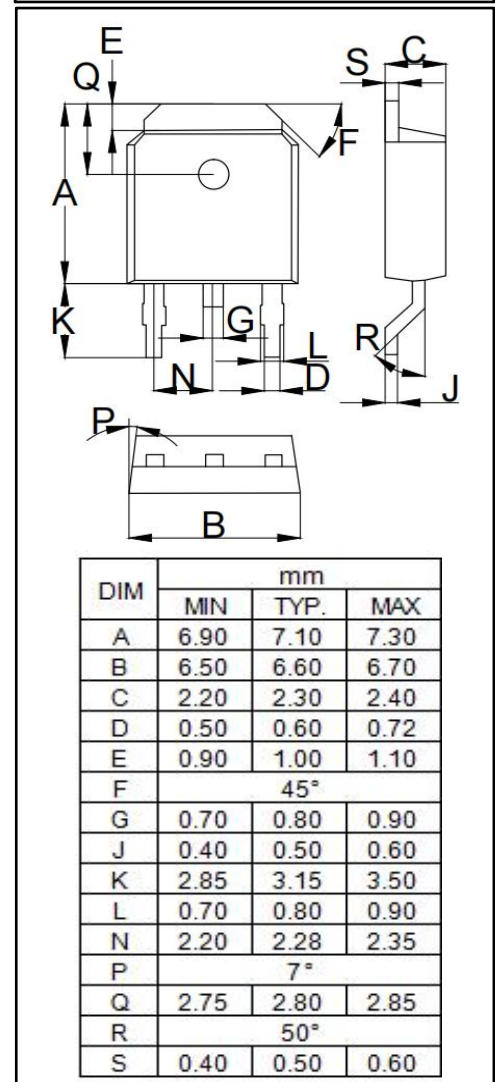
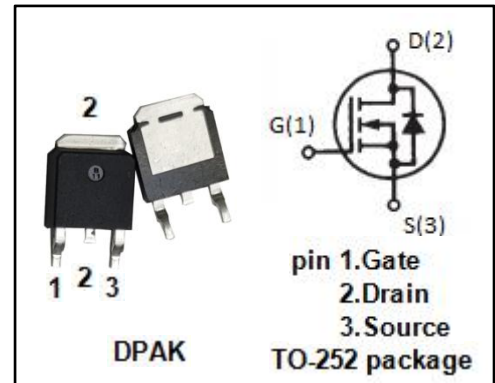
- Motor drive, DC-DC converter, power switch and solenoid drive.

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	29	A
I_{DM}	Drain Current-Single Pluse	116	A
P_D	Total Dissipation @ $T_C=25^{\circ}C$	135	W
T_J	Max. Operating Junction Temperature	175	$^{\circ}C$
T_{stg}	Storage Temperature	-55~175	$^{\circ}C$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th j-c}$	Thermal Resistance, Junction to Case	1.11	$^{\circ}C/W$



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ELECTRICAL CHARACTERISTICS ($T_c=25^{\circ}\text{C}$ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)DSS}$	Drain-Source Breakdown Voltage	$V_{GS}=0$; $I_D=0.25\text{mA}$	150	--	--	V
$V_{GS(th)}$	Gate Threshold Voltage	$V_{DS}=V_{GS}$; $I_D=0.25\text{mA}$	2.0	--	4.0	V
$R_{DS(on)}$	Drain-Source On-Resistance	$V_{GS}=10\text{V}$; $I_D=9\text{A}$	--	--	54	$\text{m}\Omega$
$R_{DS(on)}$	Drain-Source On-Resistance	$V_{GS}=6\text{V}$; $I_D=4\text{A}$	--	--	75	$\text{m}\Omega$
I_{GSS}	Gate-Body Leakage Current	$V_{GS}=\pm 20\text{V}$; $V_{DS}=0$	--	--	± 100	nA
I_{DSS}	Zero Gate Voltage Drain Current	$V_{DS}=120\text{V}$; $V_{GS}=0$	--	--	1	μA
V_{SD}	Forward On-Voltage	$I_S=9\text{A}$; $V_{GS}=0$	--	--	1.25	V
V_{SD}	Forward On-Voltage	$I_S=4\text{A}$; $V_{GS}=0$	--	--	1.0	V

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