

isc N-Channel MOSFET Transistor

FDD6670S

FEATURES

- Drain Current : I_D=64A@ T_C=25℃
- Drain Source Voltage
 - : V_{DSS}=30V(Min)
- Static Drain-Source On-Resistance
- : $R_{DS(on)}$ =59m Ω (Max) @ V_{GS} = 10V
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

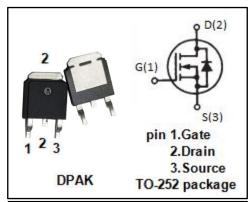
 motor drive, DC-DC converter, power switch and solenoid drive.

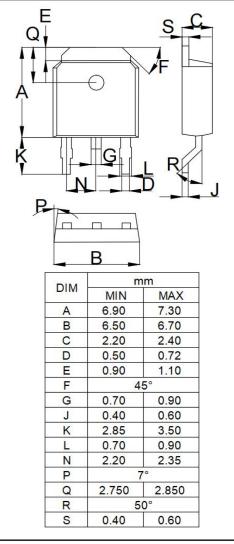
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	30	V	
V _{GSS}	Gate-Source Voltage	±20	V	
I _D	Drain Current-Continuous;@Tc=25℃	64	А	
I _{DM}	Drain Current-Single Pulsed	100	А	
P _D	Total Dissipation	70	W	
Tj	Operating Junction Temperature	-55~175	$^{\circ}$ C	
T _{stg}	Storage Temperature	-55~175	$^{\circ}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	1.8	°C/W







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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 1mA	30	-	-	V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D = 1mA	1	-	3	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =13.8A	-	-	9	mΩ
lgss	Gate-Source Leakage Current	V _{GS} =±20V;V _{DS} = 0V	-	-	±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =24V; V _{GS} = 0V	-	-	500	uA
V_{SD}	Diode forward voltage	I _{SD} =3.5A, V _{GS} = 0 V	-	-	0.7	V

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