

isc N-Channel MOSFET Transistor

FDD86113LZ

FEATURES

• Drain Current : I_D=5.5A@ T_C=25℃

- Drain Source Voltage
 - : V_{DSS}= 100V(Min)
- · Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 104 \text{m} \Omega \text{ (Max)} @V_{GS} = 10 \text{V}$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



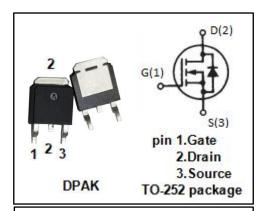
 motor drive, DC-DC converter, power switch and solenoid drive.

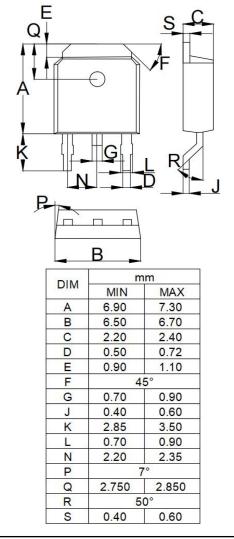
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	100	V
V _{GS}	Gate-Source Voltage-Continuous	±20	V
I _D	Drain Current-Continuous	5.5	Α
І _{ОМ}	Drain Current-Single Pluse	15	Α
P_D	Total Dissipation @T _C =25℃	29	W
TJ	Max. Operating Junction Temperature	-55~150	$^{\circ}$
T _{stg}	Storage Temperature	-55~150	${\mathbb C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	4.3	°C/W







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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 = 0.25mA	100	-	V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 0.25mA	1	3	V
R _{DS(on)1}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 4.2A	-	104	m Ω
R _{DS(on)2}	Drain-Source On-Resistance	V _{GS} = 4.5V; I _D = 3.4A	-	156	m Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0	-	±10	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 80V; V _{GS} = 0	-	1.0	uA
V _{SD}	Forward On-Voltage	I _S = 4.2A; V _{GS} = 0	-	1.3	V
V _{SD}	Forward On-Voltage	I _S = 1.7A; V _{GS} = 0	-	1.2	V

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