

isc N-Channel MOSFET Transistor

FCD3400N80Z

FEATURES

- Drain Current : I_D= 2A@ T_C=25 $^\circ\!\!\mathrm{C}$
- Drain Source Voltage
- : V_{DSS}= 800V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 3.4 Ω (Max) @ V_{GS}= 10V
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

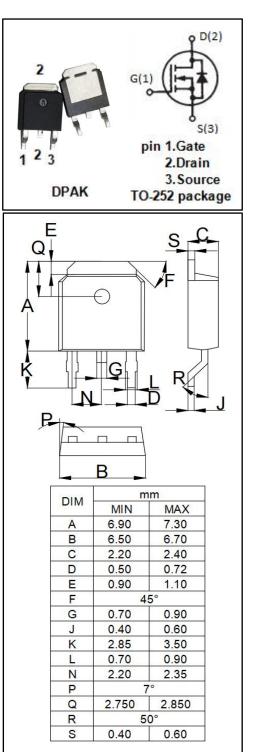
• motor drive, DC-DC converter, power switch and solenoid drive.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	800	V
V _{GS}	Gate-Source Voltage-Continuous	±20	V
ID	Drain Current-Continuous	2	A
Ідм	Drain Current-Single Pluse	4	A
PD	Total Dissipation @T _C =25℃	32	W
TJ	Max. Operating Junction Temperature -55~150		°C
T _{stg}	Storage Temperature -55~150		°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	3.9	°C/W



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¹ *isc & iscsemi* is registered trademark



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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 1mA	800	-	V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 0.2mA	2.5	4.5	V
R _{DS} (on)	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 1A	-	3.4	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0	-	±10	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 800V; V _{GS} = 0	-	25	uA
V _{SD}	Forward On-Voltage	I _S = 2A; V _{GS} = 0	-	1.2	V

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