

isc N-Channel MOSFET Transistor

SPD02N80C3,ISPD02N80C3

FEATURES

- · Static drain-source on-resistance: Ros(on)≤2.7Ω
- Enhancement mode:
- 100% avalanche tested
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

· High peak current capability

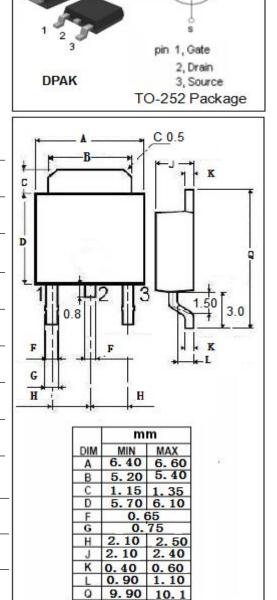
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	800	V			
V _{GS}	Gate-Source Voltage	±20	V			
ID	Drain Current-Continuous	2	A			
Ідм	Drain Current-Single Pulsed	6	А			
PD	Total Dissipation @T _c =25°C	42	W			
Tj	Max. Operating Junction Temperature	150	°C			
T _{stg}	Storage Temperature	-55~150	°C			

PARAMETER

Channel-to-case thermal resistance

Channel-to-ambient thermal resistance



isc website: www.iscsemi.cn

THERMAL CHARACTERISTICS

SYMBOL

Rth(j-c)

Rth(j-a)

0

1

MAX

3

62

UNIT

°C/W

°C/W



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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =0.25mA	800			V
V _{GS} (th)	Gate Threshold Voltage	VDS=VGS; ID=0.12mA	2.1		3.9	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =1.2A			2.7	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = 20V;V _{DS} =0V			0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =800V; V _{GS} = 0V			5	μA
V _{SD}	Diode forward voltage	I _F =Is=2A, V _{GS} = 0V			1.2	V

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