

isc N-Channel MOSFET Transistor

SPD02N60C3,ISPD02N60C3

FEATURES

Static drain-source on-resistance:

R⊳s(on)≤3Ω

- Enhancement mode:
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

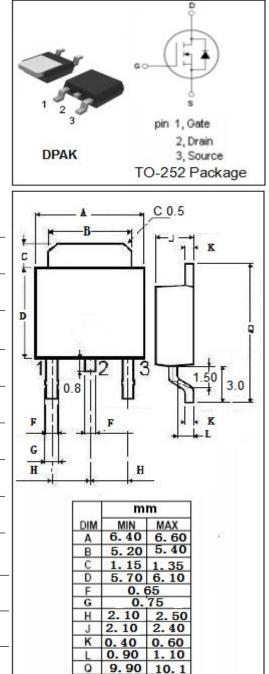
Ultra low effective capacitance

• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	600	V
V _{GS}	Gate-Source Voltage	±20	V
ID	Drain Current-Continuous	1.8	А
IDM	Drain Current-Single Pulsed 5.4		А
P _D	Total Dissipation @T _c =25°C	tion @T _c =25°C 25	
Tj	Max. Operating Junction Temperature 150		°C
T _{stg}	Storage Temperature	-55~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
Rth(j-c)	Channel-to-case thermal resistance	5	°C/W
Rth(j-a)	Channel-to-ambient thermal resistance	75	°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	600			V
V _{GS} (th)	Gate Threshold Voltage	VDS=VGS; I _D =80	2.1		3.9	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =1.1A			3	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = 30V;V _{DS} =0V			0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =600V; V _{GS} = 0V			1	μ Α
V _{SD}	Diode forward voltage	I _F =Is, V _{GS} = 0V			1.2	V

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