

isc N-Channel MOSFET Transistor

SPI11N60C3

• FEATURES

- Static drain-source on-resistance: R_{DS}(on) ≤0.38Ω
- Enhancement mode
- · Fast Switching Speed
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

- Ultra low gate charge
- · High peak current capability
- · Improved transconductance

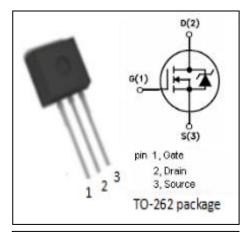


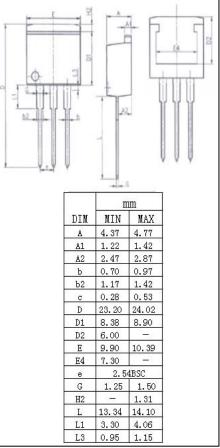
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	600	V
V _{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous	11	А
I _{DM}	Drain Current-Single Pulsed	33	А
P _D	Total Dissipation @Tc=25℃	125	W
Tj	Max. Operating Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature	-55~150	${\mathbb C}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	1	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; ID =0.25mA	600			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID =0.5mA	2.1		3.9	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; ID=7A			0.38	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} =30V; V _{DS} =0V			0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =600V; V _{GS} = 0V			1	μА
V _{SD}	Diode forward voltage	I _F =IS; V _{GS} = 0V			1.2	V

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