

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

SPI11N60CFD

FEATURES

- Static drain-source on-resistance: RDs(on) ≤0.44Ω
- Enhancement mode
- Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

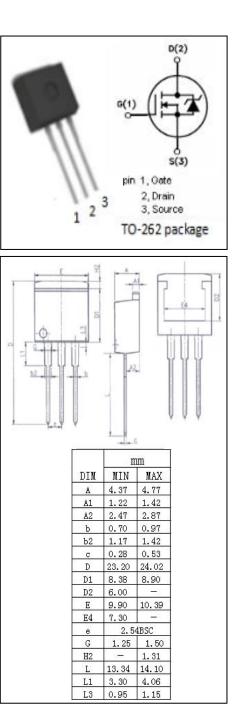
- Ultra low gate charge
- High peak current capability

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	11	А	
I _{DM}	Drain Current-Single Pulsed 28		А	
P _D	Total Dissipation @Tc=25°C 125		W	
Tj	Max. Operating Junction Temperature 150		°C	
T _{stg}	Storage Temperature	-55~150	°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	МАХ	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	3		5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; ID=7A			0.44	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} =20V; V _{DS} =0V			0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =600V; V _{GS} = 0V		1.1		μA
V _{SD}	Diode forward voltage	I _F =Is; V _{GS} = 0V			1.2	V

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