

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

SPI15N65C3

FEATURES

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

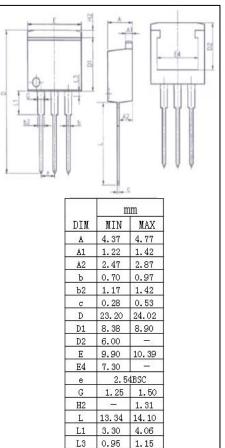
DESCRIPTION

• Provide all benefits of a fast switching SJ MOSFET while not sacrificing ease of use

• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	65	V	
V _{GS}	Gate-Source Voltage	±20	V	
ID	Drain Current-Continuous 15		А	
I _{DM}	Drain Current-Single Pulsed 45		A	
PD	Total Dissipation @Tc=25℃	156	W	
Tj	Max. Operating Junction Temperature	-55~150	°C	
T _{stg}	Storage Temperature	-55~150	°C	

pin 1, Oate 2 3 3, Source TO-262 package



THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.8	°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	650			V
$V_{GS(th)}$	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID =0.675mA	2.1		3.9	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; ID=9.4A			0.28	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			25	μA
V _{SD}	Diode forward voltage	I _F =15A; V _{GS} = 0V			1.2	V

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