

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

IPI075N15N3

• FEATURES

- Static drain-source on-resistance:
 - Ros(on) ≤7.5mΩ
- Enhancement mode
- Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

SYMBOL

VDSS

V_{GS}

 I_D

IDM

 P_D

Τį

Tstg

· Efficient and reliable device for use in a wide variety of applications

VALUE

150

 ± 20

100

400

300

175

-55~175

1

UNIT

V

V

А

А

W

°C

°C

• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

Drain-Source Voltage

Gate-Source Voltage

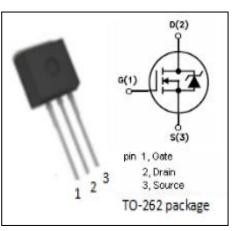
Drain Current-Continuous

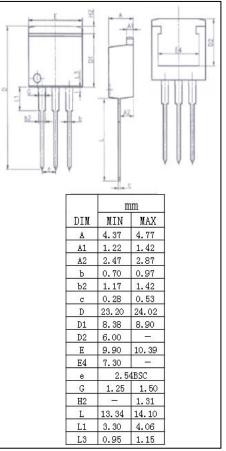
Drain Current-Single Pulsed

Total Dissipation @Tc=25°C

Max. Operating Junction Temperature

PARAMETER





• THERMAL CHARACTERISTICS

Storage Temperature

SYMBOL	PARAMETER	МАХ	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.5	°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 =1mA	150			V
$V_{GS(th)}$	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID =270 μ A	2		4	v
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =100A			7.5	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} =20V;V _{DS} =0V			0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =120V; V _{GS} = 0V			1	μA
V _{SD}	Diode forward voltage	I _F =100A; V _{GS} = 0V			1.2	V



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