

### **INCHANGE SEMICONDUCTOR**

# isc N-Channel MOSFET Transistor

## **IPI320N20N3**

pin 1, Gate

mm

MAX

4.77

1.42

2.87

0.97 1.42

0.53

24.02

8.90

10.39

1.50

1.31

1.15

2.54BSC

3

2

2, Drain

3, Source

TO-262 package

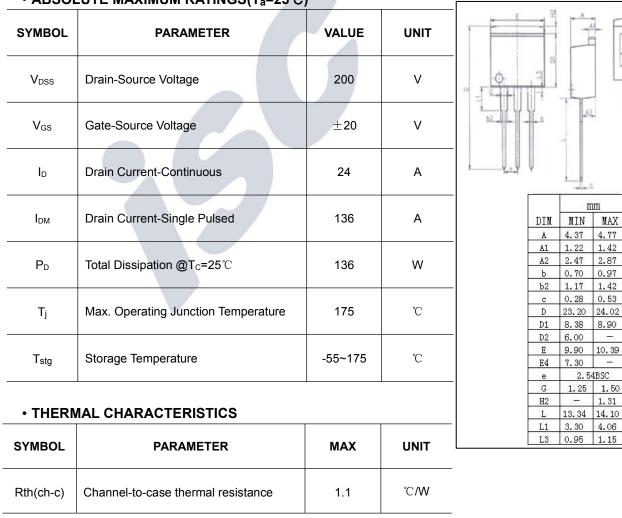
D(2)

### FEATURES

- Static drain-source on-resistance: Ros(on) ≤32mΩ
- · Enhancement mode
- · Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

### DESCRITION

· Ideal for high-frequency switching and synchronous rectification



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### ABSOLUTE MAXIMUM RATINGS(Ta=25°C)



# isc N-Channel MOSFET Transistor

## IPI320N20N3

### ELECTRICAL CHARACTERISTICS

#### T<sub>c</sub>=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNIT
BV <sub>DSS</sub>	Drain-Source Breakdown Voltage	V <sub>GS</sub> =0V; I <sub>D</sub> =1mA	200			V
V <sub>GS(th)</sub>	Gate Threshold Voltage	V <sub>DS</sub> =V <sub>GS</sub> ; I <sub>D</sub> =90 μ A	2		4	V
R <sub>DS(on)</sub>	Drain-Source On-Resistance	V <sub>GS</sub> =10V; I <sub>D</sub> =34A			32	mΩ
I <sub>GSS</sub>	Gate-Source Leakage Current	V <sub>GS</sub> = 20V;V <sub>DS</sub> =0V			0.1	μA
I <sub>DSS</sub>	Drain-Source Leakage Current	V <sub>DS</sub> =160V; V <sub>GS</sub> = 0V			1	μA
V <sub>SD</sub>	Diode forward voltage	I <sub>F</sub> =34A; V <sub>GS</sub> = 0V			1.2	V



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