

isc N-Channel MOSFET Transistor

IPI65R310CFD

D(2)

pin 1, Gate 2, Drain

mm

MAX

4.77

1.42

2.87

0.97

1.42

0.53

24.02

8.90

10.39

1.50

1.31 13.34 14.10

4.06

1.15

2.54BSC

MIN

4.37

2.47

0.70

1.17 0.28

23.20

8.38

6.00

9.90

7.30

1.25

3.30

0.95

DIM

A

A1

A2

ь

Ъ2

C

D

D1

D2

Ε E4

> е G

H2

L

L1

L3

3, Source

TO-262 package

3

2

FEATURES

- Static drain-source on-resistance: Ros(on) ≤0.31Ω
- · 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 offering an extremely fast and robust body diode



MAX

1.2

1

UNIT

°C/W

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

isc website: www.iscsemi.cn

THERMAL CHARACTERISTICS

PARAMETER

Channel-to-case thermal resistance

SYMBOL

Rth(ch-c)



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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	650			V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID =0.4mA	3.5		4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; ID=4.4A			0.31	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} =20V; V _{DS} =0V			0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =650V; V _{GS} = 0V			1	μA
V _{SD}	Diode forward voltage	I _F =6.6A; V _{GS} = 0V		0.9		V

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