

INCHANGE SEMICONDUCTOR

Isc N-Channel MOSFET Transistor

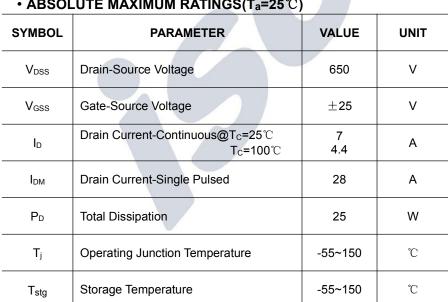
STF8N65M5

• FEATURES

- · Excellent switching performance
- · Easy to drive
- 100% avalanche tested
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

· Switching applications

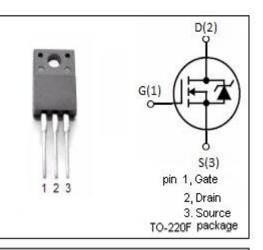


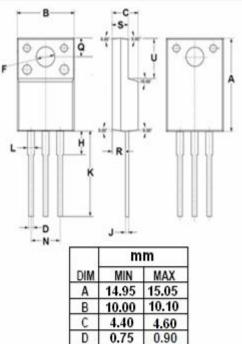
• ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	5	°C /W	
Rth(ch-a)	Channel-to-ambient thermal resistance	62.5	°C /W	

1





3.10

3.70

0.50

13.4 1.10

5.00

2.70

2.20

2.65

6.40

3.30

3.90

0.70

13.6

1.30

5.20

2.90

2.40

2.90

6.60

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ELECTRICAL CHARACTERISTICS

$T_{C}\text{=}25^{\circ}\!\!\!\mathrm{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 1mA	650			V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} =±25V; I _D =0.25mA	3		5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =3.5A		0.56	0.6	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±25V;V _{DS} =0V			±0.1	μ Α
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 650V; V _{GS} = 0V; TJ=25℃ TJ=125℃			1 100	μA
V _{SDF}	Diode forward voltage	I_{SD} =7A, V_{GS} = 0 V			1.5	v

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2