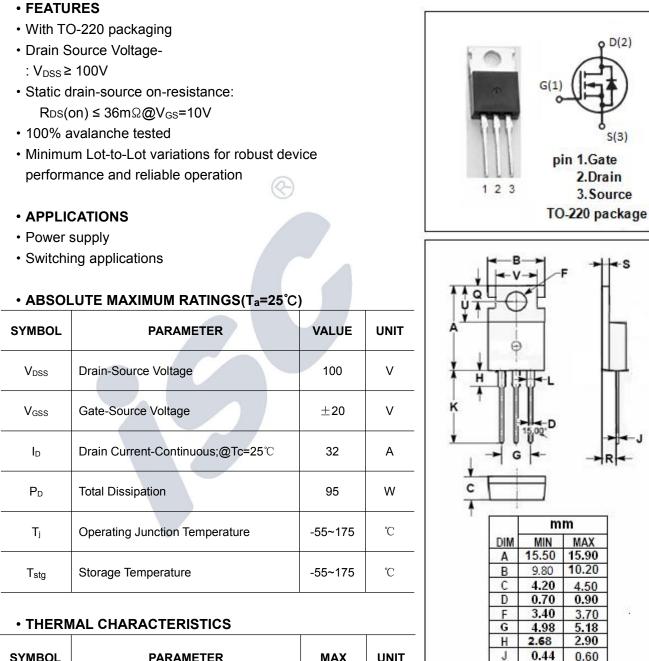


#### INCHANGE SEMICONDUCTOR

# isc N-Channel MOSFET Transistor

### FDP3682



SYMBOL	PARAMETER	МАХ	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	1.58	°C/W

isc & iscsemi is registered trademark

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2.80

1.20

2.70

2.30

1.29

6.45

8.66

13.40

1.45

2.90

2.70

1.35

6.65

8.86

isc website: www.iscsemi.cn



## isc N-Channel MOSFET Transistor

## FDP3682

#### **ELECTRICAL CHARACTERISTICS**

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

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV <sub>DSS</sub>	Drain-Source Breakdown Voltage	V <sub>GS</sub> =0V; I <sub>D</sub> = 250uA	100			v
$V_{GS(th)}$	Gate Threshold Voltage	V <sub>DS</sub> =V <sub>GS</sub> ; I <sub>D</sub> =250uA	2		4	v
R <sub>DS(on)</sub>	Drain-Source On-Resistance	V <sub>GS</sub> = 10V; I <sub>D</sub> =32A			36	mΩ
I <sub>GSS</sub>	Gate-Source Leakage Current	V <sub>GS</sub> =±20V;V <sub>DS</sub> = 0V			±100	nA
I <sub>DSS</sub>	Drain-Source Leakage Current	V <sub>DS</sub> = 80V; V <sub>GS</sub> = 0V V <sub>DS</sub> = 80V; V <sub>GS</sub> = 0V;T <sub>J</sub> =150°C			1 250	μ <b>Α</b>
VSDF	Diode forward voltage	I <sub>SD</sub> = 32A, V <sub>GS</sub> = 0 V			1.25	V

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