

### **INCHANGE SEMICONDUCTOR**

# isc N-Channel MOSFET Transistor

## **IRFSL4510**

D(2)

### FEATURES

- · Static drain-source on-resistance: RDs(on) ≤13.5mΩ
- · Enhancement mode
- Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

#### DESCRITION

SYMBOL

VDSS

V<sub>GS</sub>

ΙD

 $I_{DM}$ 

 $P_D$ 

Τį

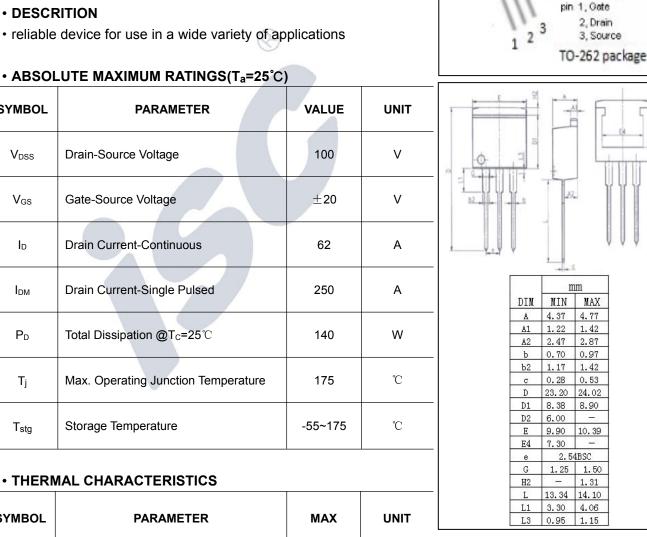
Tstg

SYMBOL

Rth(ch-c)

· reliable device for use in a wide variety of applications

#### ABSOLUTE MAXIMUM RATINGS(Ta=25°C)



1.05

1

°C/W

## isc website: www.iscsemi.cn

Channel-to-case thermal resistance



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### **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; ID =250 μ A	100			V
$V_{GS(th)}$	Gate Threshold Voltage	V <sub>DS</sub> =V <sub>GS</sub> ; ID =100 μ A	2.0		4.0	V
R <sub>DS(on)</sub>	Drain-Source On-Resistance	V <sub>GS</sub> =10V; I <sub>D</sub> =37A			13.5	mΩ
I <sub>GSS</sub>	Gate-Source Leakage Current	V <sub>GS</sub> =±20V			±0.1	μA
I <sub>DSS</sub>	Drain-Source Leakage Current	V <sub>DS</sub> =100V; V <sub>GS</sub> = 0V			20	μ Α
V <sub>SD</sub>	Diode forward voltage	Is=37A, V <sub>GS</sub> = 0V			1.3	V

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