

### INCHANGE SEMICONDUCTOR

## Isc N-Channel MOSFET Transistor

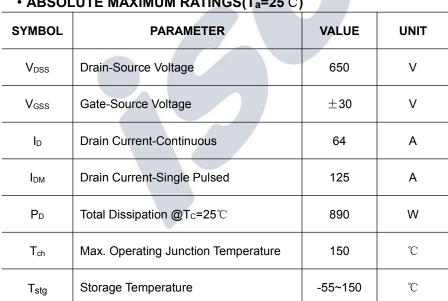
# **IXTH64N65X**

### • FEATURES

- · With TO-247 package
- · Low input capacitance and gate charge
- · Low gate input resistance
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

#### APPLICATIONS

Switching applications

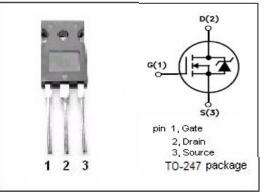


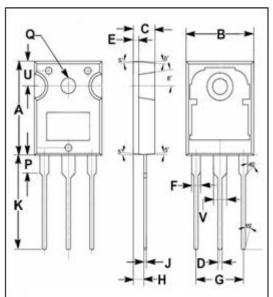
### • ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

#### THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	3.2	°C/W	
Rth(ch-a)	Channel-to-ambient thermal resistance	62.5	°C/W	

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	mm			
DIM	MIN	MAX		
Α	19.80	20.20		
В	15.40	15.80		
С	4.90	5.10		
D	0.90	1.10		
E	1.40	1.60		
F	1.90	2.10		
G	10.80	11.00		
Η	2.40	2.60		
J	0.50	0.70		
K	19.50	20.50		
Ρ	3.90	4.10		
Q	3.30	3.50		
U	5.20	5.40		
V	2.90	3.10		

### isc website: www.iscsemi.cn



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#### **ELECTRICAL CHARACTERISTICS**

#### $T_{C}\text{=}25^{\circ}\!\!\!\!\mathrm{C}$ 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> =1mA	650			V
V <sub>GS</sub> (th)	Gate Threshold Voltage	V <sub>DS</sub> = ±30V; I <sub>D</sub> =0.25mA	3.0		5.0	V
R <sub>DS(on)</sub>	Drain-Source On-Resistance	V <sub>GS</sub> = 10V; I <sub>D</sub> =32A			51	mΩ
I <sub>GSS</sub>	Gate-Source Leakage Current	V <sub>GS</sub> = ±30V;V <sub>DS</sub> =0V			±0.1	μ Α
I <sub>DSS</sub>	Drain-Source Leakage Current	V <sub>DS</sub> = 650V; V <sub>GS</sub> = 0V; TJ=25℃ TJ=125℃			10 100	μ Α
V <sub>SDF</sub>	Diode forward voltage	I <sub>SD</sub> =64A, V <sub>GS</sub> = 0 V			1.4	v

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