

# isc N-Channel MOSFET Transistor

# IXTH62N65X2

### • FEATURES

- · Drain Source Voltage-
- : V<sub>DSS</sub>= 650V(Min)
- · Static Drain-Source On-Resistance
  - :  $R_{DS(on)}$  ≤ 50m  $\Omega$  @ $V_{GS}$ = 10V
- Fast Switching
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



- · Easy to Mount
- Space Savings
- High Power Density

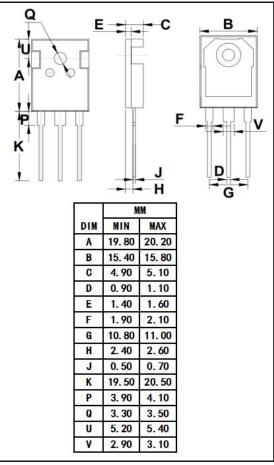
# pin 1.Gate 2.Drain 3. Source

# • ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
$V_{DSS}$	Drain-Source Voltage	650	٧
V <sub>GS</sub>	Gate-Source Voltage-Continuous	±30	V
Ι <sub>D</sub>	Drain Current-Continuous	62	Α
I <sub>DM</sub>	Drain Current-Single Plused	124	Α
P <sub>D</sub>	Total Dissipation @T <sub>C</sub> =25°C 780		W
Tj	Max. Operating Junction Temperature -55~150		$^{\circ}$
T <sub>stg</sub>	Storage Temperature	-55~150	$^{\circ}$

### • THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R <sub>th j-c</sub>	Thermal Resistance, Junction to Case	0.16	°C/W





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### • ELECTRICAL CHARACTERISTICS

T<sub>C</sub>=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	MAX	UNIT			
V <sub>(BR)DSS</sub>	Drain-Source Breakdown Voltage	V <sub>GS</sub> = 0; I <sub>D</sub> = 1mA	650			V			
V <sub>GS(th)</sub>	Gate Threshold Voltage	V <sub>DS</sub> = V <sub>GS</sub> ; I <sub>D</sub> = 250uA	2.7		5	V			
R <sub>DS(on)</sub>	Drain-Source On-Resistance	V <sub>GS</sub> = 10V; I <sub>D</sub> = 26A			50	m Ω			
I <sub>GSS</sub>	Gate-Body Leakage Current	V <sub>GS</sub> = ±30V;V <sub>DS</sub> = 0			±100	nA			
I <sub>DSS</sub>	Zero Gate Voltage Drain Current	V <sub>DS</sub> = 650V; V <sub>GS</sub> = 0 V <sub>DS</sub> = 650V; V <sub>GS</sub> = 0;T <sub>J</sub> =125℃			25 300	μΑ			
V <sub>SD</sub>	Diode Forward On-voltage	I <sub>F</sub> = 62A ;V <sub>GS</sub> = 0			1.4	V			

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