

# isc N-Channel MOSFET Transistor

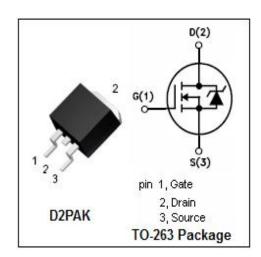
## IXFA34N65X2

#### FEATURES

- With TO-263(D2PAK) packaging
- · With low gate drive requirements
- · Easy to drive
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



Switching applications

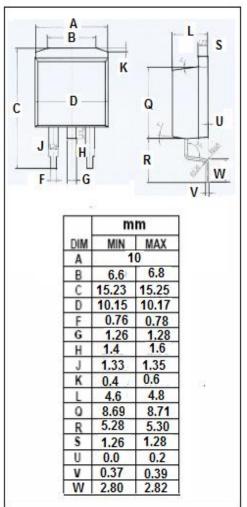


• ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>DSS</sub>	Drain-Source Voltage	650	V
V <sub>GSS</sub>	Gate-Source Voltage	±30	V
I <sub>D</sub>	Drain Current-Continuous	34	А
I <sub>DM</sub>	Drain Current-Single Pulsed	68	А
P <sub>D</sub>	Total Dissipation	540	W
T <sub>j</sub>	Operating Junction Temperature	-55~150	$^{\circ}\mathbb{C}$
T <sub>stg</sub>	Storage Temperature	-55~150	${\mathbb C}$

### • THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.23	°C/W





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#### **ELECTRICAL CHARACTERISTICS**

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	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(th)</sub>	Gate Threshold Voltage	V <sub>DS</sub> =±30V; I <sub>D</sub> =2.5mA	3.5		5.0	V
R <sub>DS(on)</sub>	Drain-Source On-Resistance	V <sub>GS</sub> = 10V; I <sub>D</sub> =17A			69	mΩ
I <sub>GSS</sub>	Gate-Source Leakage Current	V <sub>GS</sub> = ±30V;V <sub>DS</sub> = 0V			±0.1	μА
I <sub>DSS</sub>	Drain-Source Leakage Current	V <sub>DS</sub> = 650V; V <sub>GS</sub> = 0V;@Tc=25°C Tc=125°C			10 1750	μА
V <sub>SDF</sub>	Diode forward voltage	I <sub>SD</sub> =34A, V <sub>GS</sub> = 0 V			1.4	V

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