

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

IXFA24N65X2

FEATURES

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

APPLICATIONS

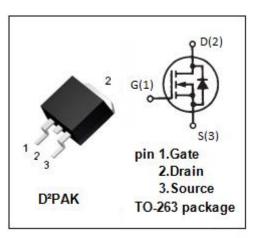
- · Easy to Mount
- Space Savings
- High Power Density

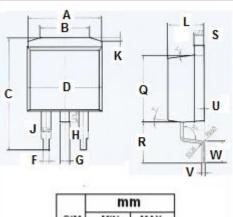
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

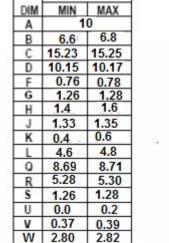
SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage 65		V
V _{GS}	Gate-Source Voltage-Continuous		V
ID	Drain Current-Continuous	34	А
I _{DM}	Drain Current-Single Plused 68		А
PD	Total Dissipation @Tc=25°C	ation @Tc=25°C 540	
Tj	Max. Operating Junction Temperature	ature -55~150	
T _{stg}	Storage Temperature -55~150		°C

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.23	°C/W







isc website: <u>www.iscsemi.com</u>



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• ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 1mA	650			V
V _{GS(th)}	Gate Threshold Voltage	V_{DS} = V_{GS} ; I_D = 2.5mA	3.5		5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 17A			100	$m\Omega$
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} =0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 650V; V _{GS} = 0 V _{DS} = 650V; V _{GS} = 0;TJ=125℃			10 1750	μA
V _{SD}	Diode Forward On-voltage	I _F = 34A ;V _{GS} = 0			1.4	V

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