

isc N-Channel MOSFET Transistor

IXFA20N85XHV

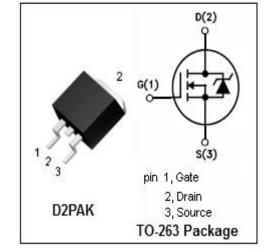
• FEATURES

- With TO-263(D2PAK) packaging
- · High speed switching
- · Low gate input resistance
- · Standard level gate drive
- · Easy to use
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

- Power supply
- · Switching applications

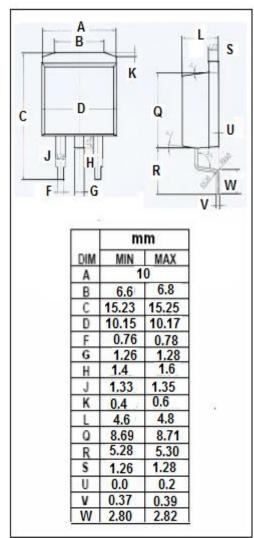


• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V_{DSS}	Drain-Source Voltage	850	V	
V_{GSS}	Gate-Source Voltage	±30	V	
Ι _D	Drain Current-Continuous	20	А	
I _{DM}	Drain Current-Single Pulsed 50		А	
P _D	Total Dissipation 540		W	
Tj	Operating Junction Temperature		$^{\circ}\!\mathbb{C}$	
T _{stg}	Storage Temperature	-55~150	$^{\circ}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	0.6	°C/W	
Rth(ch-a)	ch-a) Channel-to-ambient thermal resistance		°C/W	





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 1mA	850			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =2.5mA	3.5		5.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =10A			330	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±0.1	μ A
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 850V; V _{GS} = 0V;Tj=25℃ Tj=125℃			25 1500	μ А
V _{SDF}	Diode forward voltage	I _{SD} =20A, V _{GS} = 0 V			1.4	V

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