

Isc N-Channel MOSFET Transistor

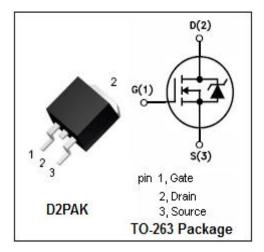
IXTA12N70X2

• FEATURES

- · With TO-263(D2PAK) packaging
- · Low gate charge
- · High speed switching
- · Low on-resistance
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



· Switching applications

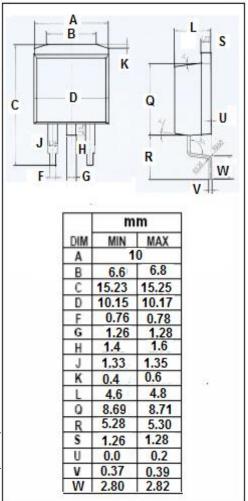


• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	700	V
V _{GSS}	Gate-Source Voltage	±30	V
I _D	Drain Current-Continuous	12	А
I _{DM}	Drain Current-Single Pulsed	24	А
P_D	Total Dissipation	180	W
Tj	Operating Junction Temperature	-55~150	${\mathbb C}$
T _{stg}	Storage Temperature	-55~150	${\mathbb C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.69	°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 = 0.25mA	700			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =±30V; I _D =0.05mA	2.5		4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =6A			300	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0V			±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 100V; V _{GS} = 0V@Tc=25°C Tc=125°C			5 75	μА
V _{SDF}	Diode forward voltage	I _S =6A, V _{GS} = 0 V			1.4	V

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