

isc N-Channel MOSFET Transistor

IXFA22N65X2 IIXFA22N65X2

DESCRIPTION

• Drain Current : I_D= 22A@ T_C=25℃

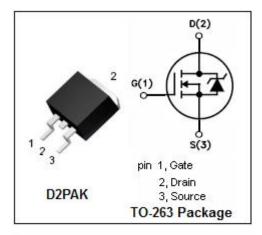
• Drain Source Voltage : V_{DSS}= 650V(Min)

• 100% Avalanche Rated

 Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Switch-Mode and Resonant-Mode Power Supplies
- DC-DC Converters
- · AC and DC Motor Drives

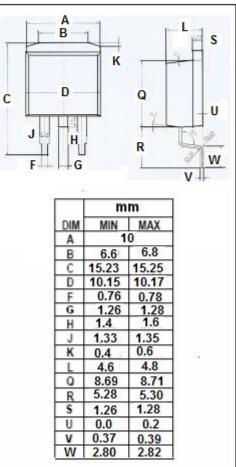


ABSOLUTE MAXIMUM RATINGS(T_C=25℃)

SYMBOL	ARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	650	V
V _{GS}	Gate-Source Voltage	±30	V
I _D	Drain Current-continuous@ T _C =25℃	22	Α
I _{DM}	Pulse Drain Current	44	Α
P _{tot}	Total Dissipation@T _C =25℃	390	W
Tj	Max. Operating Junction Temperature 150		$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.32	°C/W





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• ELECTRICAL CHARACTERISTICS (Tc=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 250μA	650			V
$V_{GS(th)}$	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =250μA	3		5	V
V _{SD}	Diode Forward On-Voltage	I _F = 22A ;V _{GS} = 0			1.4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =11A			145	mΩ
I _{GSS}	Gate-Body Leakage Current	$V_{GS} = \pm 30V; V_{DS} = 0$			±100	nA
IDSS	Zero Gate Voltage Drain Current	V _{DS} = 650V; V _{GS} = 0			10	μA

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