

isc N-Channel MOSFET Transistor

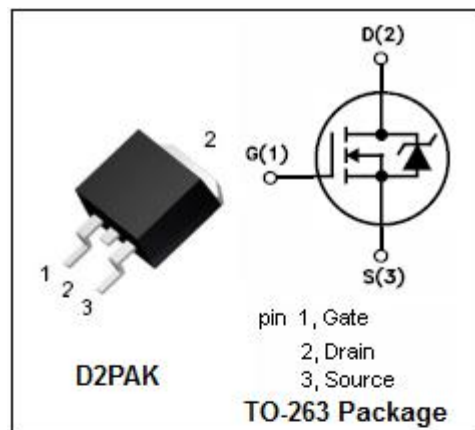
IXFA22N65X2 IIXFA22N65X2

• DESCRIPTION

- Drain Current : $I_D = 22A @ T_C = 25^\circ C$
- Drain Source Voltage : $V_{DSS} = 650V (Min)$
- 100% Avalanche Rated
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

• APPLICATIONS

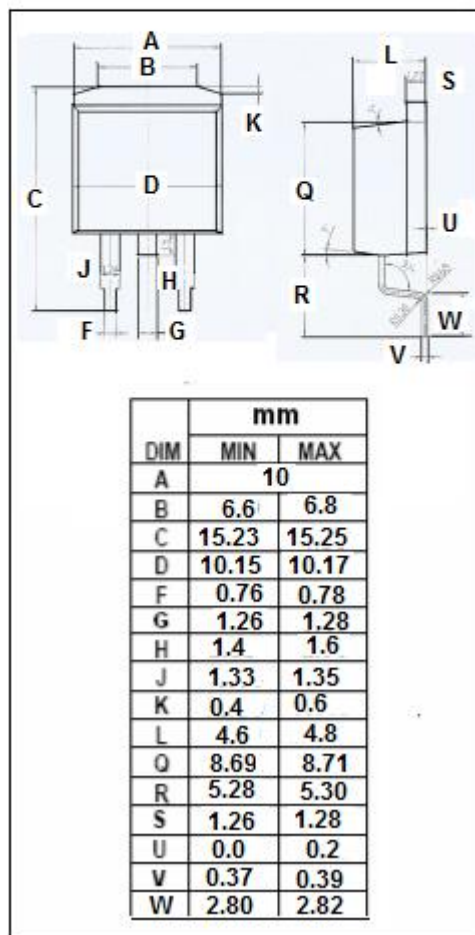
- Switch-Mode and Resonant-Mode Power Supplies
- DC-DC Converters
- AC and DC Motor Drives


ABSOLUTE MAXIMUM RATINGS($T_C = 25^\circ C$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	650	V
V_{GS}	Gate-Source Voltage	± 30	V
I_D	Drain Current-continuous@ $T_C = 25^\circ C$	22	A
I_{DM}	Pulse Drain Current	44	A
P_{tot}	Total Dissipation@ $T_C = 25^\circ C$	390	W
T_j	Max. Operating Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature Range	-55~150	$^\circ C$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th j-c}$	Thermal Resistance, Junction to Case	0.32	$^\circ C/W$



isc N-Channel MOSFET Transistor**IXFA22N65X2****IIXFA22N65X2****• ELECTRICAL CHARACTERISTICS (T_c=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} =±30V; V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 650V; V _{GS} = 0			10	μA

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