

isc N-Channel MOSFET Transistor

IXTP2N65X2

• FEATURES

- Static drain-source on-resistance:
 R_{DS}(on) ≤ 2.3Ω@V_{GS}=10V
- Fully characterized avalanche voltage and current
- 100% Avalanche Tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



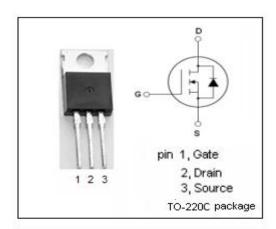
- · Switched mode power supplies
- DC-DC converters

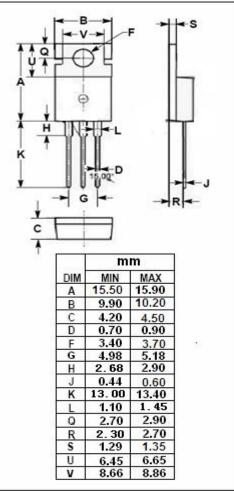
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

PARAMETER	VALUE	UNIT	
Drain-Source Voltage	650	V	
Gate-Source Voltage	±30	V	
Drain Current-Continuous	2	А	
Drain Current-Single Pulsed	4	А	
Total Dissipation @Tc=25°C	55	W	
Operating Junction Temperature	-55~150	$^{\circ}\mathbb{C}$	
Storage Temperature	-55~150	${}^{\mathbb{C}}$	
	Drain-Source Voltage Gate-Source Voltage Drain Current-Continuous Drain Current-Single Pulsed Total Dissipation @Tc=25°C Operating Junction Temperature	Drain-Source Voltage 650 Gate-Source Voltage ± 30 Drain Current-Continuous 2 Drain Current-Single Pulsed 4 Total Dissipation @ T_C =25°C 55 Operating Junction Temperature -55~150	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th(j-c)}	Junction-to-case thermal resistance	0.27	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0V; ID = 250 μ A	650		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; ID = 250 μ A	3.0	5.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D = 1A		2.3	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} =0V		±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = V _{DSS} ; V _{GS} = 0V		5	- μΑ
		V _{DS} = V _{DSS} ; V _{GS} = 0V;T _J = 125°C		100	
VsD	Diode forward voltage	I _F = 2A; V _{GS} = 0V		1.4	V



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