

isc N-Channel MOSFET Transistor

AOTF22N50

• FEATURES

- · With low gate drive requirements
- · Easy to drive
- · 100% avalanche tested
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

· Switching applications

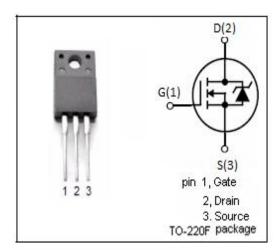


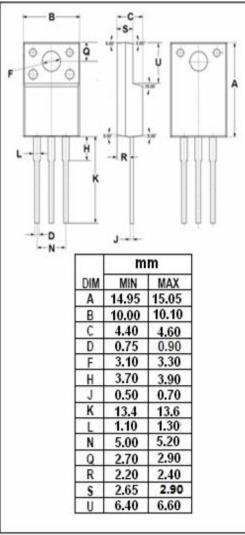
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	500	V	
V _{GSS}	Gate-Source Voltage	±30	V	
I _D	Drain Current-Continuous Tc=25°C Tc=100°C	22 15	А	
I _{DM}	Drain Current-Single Pulsed	88	А	
P _D	Total Dissipation	50	W	
Tj	Operating Junction Temperature	-55~150	${\mathbb C}$	
T _{stg}	Storage Temperature	-55~150	${\mathbb C}$	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	2.5	°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	500			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =5V; I _D =0.25mA	3.4		4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =11A		210	260	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0V			±0.1	μ А
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 500V; V _{GS} = 0V;@Tc=25°C V _{DS} = 400V; V _{GS} = 0V; Tc=125°C			1 10	μ А
V _{SDF}	Diode forward voltage	I _{SD} =1A, V _{GS} = 0 V			1	V

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