

isc N-Channel MOSFET Transistor

AOTF8N65

FEATURES

- Drain Current –I_D= 8A@ T_C=25 $^\circ\!\!\mathbb{C}$
- Drain Source Voltage-: V_{DSS}= 650V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 1.15 Ω (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

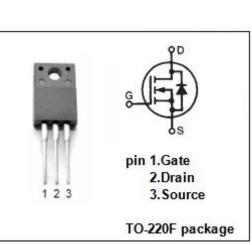
• Designed for use in switch mode power supplies and general purpose applications.

ABSOLUTE WAATWOW RATINGS (Ta=25 C)						
SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	650	V			
V _{GS}	Gate-Source Voltage-Continuous	±30	V			
ID	Drain Current-Continuous	8	A			
I _{DM}	Drain Current-Single Pluse	32	A			
P _D	Total Dissipation @T _c =25℃	50	W			
TJ	Max. Operating Junction Temperature -55~150		°C			
T _{stg}	Storage Temperature -55~150		°C			

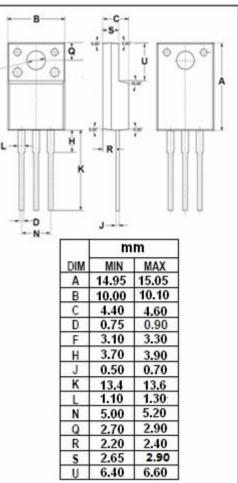
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	2.5	°C/W



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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V(BR)DSS	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	650		V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} = 5V; I _D = 0.25mA	3	4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 4A		1.15	Ω
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 V _{DS} = 520V; V _{GS} = 0@T _J = 55℃		1 10	μA
V _{SD}	Forward On-Voltage	I _S = 1A; V _{GS} = 0		1	V

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