

isc N-Channel MOSFET Transistor

AOTF450L

FEATURES

- Drain Current –ID= 10A@ TC=25 $^{\circ}\mathrm{C}$
- · Drain Source Voltage-
 - : V_{DSS}= 200V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 0.265 \Omega (TYPE)$
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

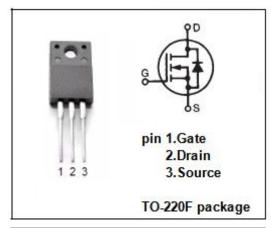
 Designed for use in switch mode power supplies and general purpose applications.

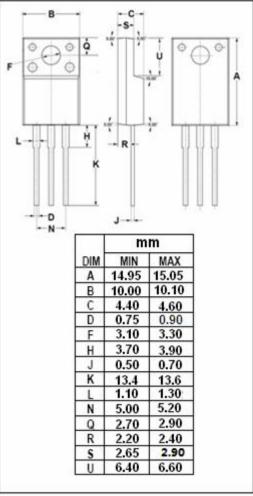
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	200	V
V _{GS}	Gate-Source Voltage-Continuous	±20	V
I _D	Drain Current-Continuous	10	А
I _{DM}	Drain Current-Single Pluse	32	Α
P _D	Total Dissipation @T _C =25℃	37	W
TJ	Max. Operating Junction Temperature -55~175		$^{\circ}$
T _{stg}	Storage Temperature -55~175		$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	4.1	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBO L	PARAMETER	CONDITIONS	MIN	TYPE	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	200			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 0.25mA	2.0		4.0	٧
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 4.3A		0.265		Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 200V; V _{GS} = 0 V _{DS} = 160V; V _{GS} = 0@T _J =55°C			25 250	μ A
V _{SD}	Forward On-Voltage	I _S = 7.2A; V _{GS} = 0			2.5	V



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