

isc N-Channel MOSFET Transistor

AOK60N30L

FEATURES

- Drain Current –I_D= 60A@ T_C=25 °C
- · Drain Source Voltage-
 - : V_{DSS}= 300V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 0.056 \Omega (Max)$
- · 100% avalanche tested
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

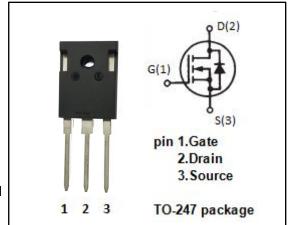
DESCRIPTION

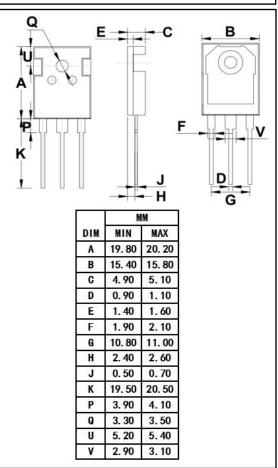
• Designed for use in switch mode power supplies and general purpose applications.

SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	300	V			
V _{GS}	Gate-Source Voltage-Continuous	±30	V			
I _D	Drain Current-Continuous	60	Α			
I _{DM}	Drain Current-Single Pluse	200	Α			
P _D	Total Dissipation @T _C =25°C	658	W			
TJ	Max. Operating Junction Temperature	-55~150	$^{\circ}$			
T _{stg}	Storage Temperature	-55~150	°C			

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.19	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	300		٧
V _{GS} (th)	Gate Threshold Voltage	V _{DS} = 5V; I _D = 0.25mA	2.9	4.1	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 30A		0.056	Ω
lgss	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0		±100	nA
l _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 300V; V _{GS} = 0 V _{DS} = 240V; V _{GS} = 0@T _J =150°C		1 10	μА
V _{SD}	Forward On-Voltage	I _S = 1A; V _{GS} = 0		1	V



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