

# isc N-Channel MOSFET Transistor

# **AOB2906**

## • FEATURES

- Drain Current –I<sub>D</sub>= 122A@ T<sub>C</sub>=25℃
- · Drain Source Voltage-
  - : V<sub>DSS</sub>= 100V(Min)
- Static Drain-Source On-Resistance
  - :  $R_{DS(on)} = 5.9 \text{m} \Omega \text{ (Max)}$
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

## DESCRITION

 Be suitable for synchronous rectification for server and general purpose applications

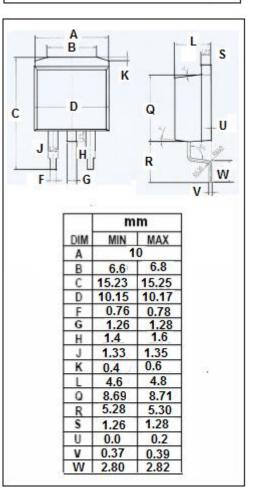
# PPAK 2 G(1) S(3) pin 1.Gate 2.Drain 3.Source TO-263 package

# • ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
$V_{DSS}$	Drain-Source Voltage	100	V
V <sub>G</sub> s	Gate-Source Voltage	±20	V
I <sub>D</sub>	Drain Current-Continuous	122	А
I <sub>DM</sub>	Drain Current-Single Pulsed	310	А
P <sub>D</sub>	Total Dissipation @Tc=25℃	187	W
Tj	Max. Operating Junction Temperature -55~175		$^{\circ}$
T <sub>stg</sub>	Storage Temperature	-55~175	$^{\circ}$

## • THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.8	°C/W





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### **ELECTRICAL CHARACTERISTICS**

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
BV <sub>DSS</sub>	Drain-Source Breakdown Voltage	V <sub>GS</sub> =0V; I <sub>D</sub> = 250 μ A	100		V
V <sub>GS</sub> (th)	Gate Threshold Voltage	V <sub>DS</sub> = V <sub>GS</sub> ; ID = 250 μ A	2.3	3.5	V
R <sub>DS(on)</sub>	Drain-Source On-Resistance	V <sub>GS</sub> = 10V; I <sub>D</sub> = 20A		5.9	mΩ
I <sub>GSS</sub>	Gate-Source Leakage Current	V <sub>GS</sub> = ±20V;V <sub>DS</sub> = 0V		±100	nA
I <sub>D</sub> ss	Drain-Source Leakage Current	V <sub>DS</sub> = 100V; V <sub>GS</sub> = 0V V <sub>DS</sub> = 100V; V <sub>GS</sub> = 0V;T <sub>J</sub> = 55°C		1 5	μА
$V_{SD}$	Diode forward voltage	Is= 1A; V <sub>GS</sub> = 0V		1	V

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