

# isc N-Channel MOSFET Transistor

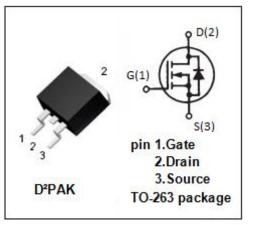
# AOB286L

### • FEATURES

- Drain Current –I\_D= 70A@ T\_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage-: V<sub>DSS</sub>= 80V(Min)
- Static Drain-Source On-Resistance
- :  $R_{DS(on)}$  = 5.7m  $\Omega$  (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



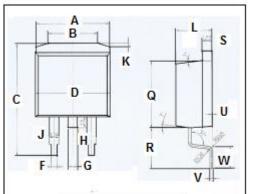
### • ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

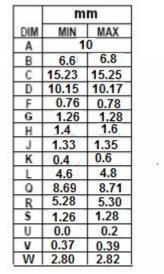
SYMBOL	PARAMETER	VALUE	UNIT
V <sub>DSS</sub>	Drain-Source Voltage	80	V
V <sub>GS</sub>	Gate-Source Voltage	±20	V
ID	Drain Current-Continuous	70	А
I <sub>DM</sub>	Drain Current-Single Pulsed	245	А
PD	Total Dissipation @Tc=25℃ 1		W
Tj	Max. Operating Junction Temperature	ax. Operating Junction Temperature -55~175	
T <sub>stg</sub>	Storage Temperature	-55~175	°C

### • THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.9	°C/W

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### ELECTRICAL CHARACTERISTICS

#### $T_{\text{C}}\text{=}25\,^\circ\!\!\!\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
BV <sub>DSS</sub>	Drain-Source Breakdown Voltage	V <sub>GS</sub> =0V; ID = 250 μ A	80		V
V <sub>GS</sub> (th)	Gate Threshold Voltage	V <sub>DS</sub> = V <sub>GS</sub> ; ID = 250 μ A	2.3	3.3	V
R <sub>DS(on)</sub>	Drain-Source On-Resistance	V <sub>GS</sub> = 10V; I <sub>D</sub> = 20A		5.7	mΩ
I <sub>GSS</sub>	Gate-Source Leakage Current	$V_{GS}$ = ±20V; $V_{DS}$ = 0V		±100	nA
IDSS	Drain-Source Leakage Current	V <sub>DS</sub> = 80V; V <sub>GS</sub> = 0V V <sub>DS</sub> = 80V; V <sub>GS</sub> = 0V;T <sub>J</sub> = 55°C		1 5	μA
V <sub>SD</sub>	Diode forward voltage	Is= 1A; V <sub>GS</sub> = 0V		1	V

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