

isc N-Channel MOSFET Transistor

AOB262L

• FEATURES

- Drain Current – $I_D = 140A$ @ $T_c=25^\circ C$
- Drain Source Voltage-
: $V_{DSS} = 60V$ (Min)
- Static Drain-Source On-Resistance
: $R_{DS(on)} = 2.8m\Omega$ (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

• DESCRIPTION

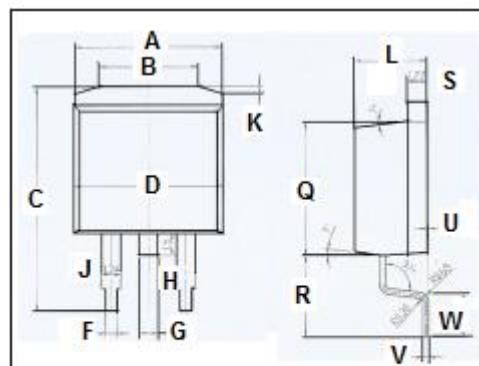
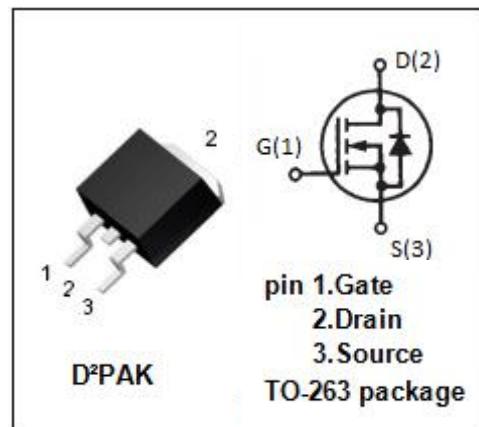
- Be suitable for synchronous rectification for server and general purpose applications

• ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ C$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	60	V
V_{GS}	Gate-Source Voltage	± 20	V
I_D	Drain Current-Continuous	140	A
I_{DM}	Drain Current-Single Pulsed	500	A
P_D	Total Dissipation @ $T_c=25^\circ C$	333	W
T_j	Max. Operating Junction Temperature	-55~175	°C
T_{stg}	Storage Temperature	-55~175	°C

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th(ch-c)}$	Channel-to-case thermal resistance	0.45	°C/W



DIM	mm	
	MIN	MAX
A	10	
B	6.6	6.8
C	15.23	15.25
D	10.15	10.17
F	0.76	0.78
G	1.26	1.28
H	1.4	1.6
J	1.33	1.35
K	0.4	0.6
L	4.6	4.8
Q	8.69	8.71
R	5.28	5.30
S	1.26	1.28
U	0.0	0.2
V	0.37	0.39
W	2.80	2.82

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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
BV_{DSS}	Drain-Source Breakdown Voltage	$V_{\text{GS}}=0\text{V}; I_{\text{D}} = 250 \mu\text{A}$	60		V
$V_{\text{GS(th)}}$	Gate Threshold Voltage	$V_{\text{DS}}= V_{\text{GS}}; I_{\text{D}} = 250 \mu\text{A}$	2.2	3.2	V
$R_{\text{DS(on)}}$	Drain-Source On-Resistance	$V_{\text{GS}}= 10\text{V}; I_{\text{D}} = 20\text{A}$		2.8	$\text{m}\Omega$
I_{GSS}	Gate-Source Leakage Current	$V_{\text{GS}}= \pm 20\text{V}; V_{\text{DS}}= 0\text{V}$		± 100	nA
I_{DSS}	Drain-Source Leakage Current	$V_{\text{DS}}= 60\text{V}; V_{\text{GS}}= 0\text{V}$ $V_{\text{DS}}= 60\text{V}; V_{\text{GS}}= 0\text{V}; T_j = 55^\circ\text{C}$		1 5	μA
V_{SD}	Diode forward voltage	$I_{\text{S}} = 1\text{A}; V_{\text{GS}} = 0\text{V}$		1	V

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