

isc N-Channel MOSFET Transistor

AOB14N50

FEATURES

- Drain Current –I_D= 14A@ T_C=25[°]C
- · Drain Source Voltage-: V_{DSS}= 500V(Min)
- Static Drain-Source On-Resistance
- : $R_{DS(on)} = 0.38 \Omega$ (Max)
- 100% avalanche tested
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

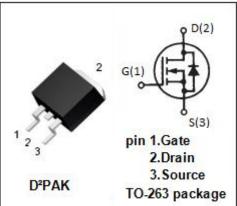
DESCRIPTION

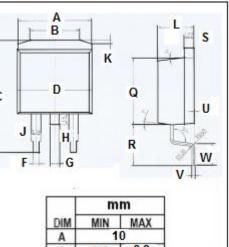
· Designed for use in switch mode power supplies and general purpose applications.



THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.45	°C/W





Dim	- MILLA	MAA	
Α	1	0	
В	6.6	6.8	1
С	15.23	15.25	1
D	10.15	10.17	1
F	0.76	0.78]
G	1.26	1.28]
Н	1.4	1.6	
J	1.33	1.35	1
Κ	0.4	0.6	
L	4.6	4.8	
0	8.69	8.71]
R	5.28	5.30]
R S	1.26	1.28	
U	0.0	0.2]
٧	0.37	0.39	
W	2.80	2.82	1

isc website: www.iscsemi.com



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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	500		V
V _{GS(th)}	Gate Threshold Voltage V_{DS} = 5V; I _D = 0.25mA		3.3	4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 7A		0.38	Ω
lgss	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V_{DS} = 500V; V_{GS} = 0 V_{DS} = 400V; V_{GS} = 0@T _J =125°C		1 5	μA
V _{SD}	Forward On-Voltage	I _S = 1A; V _{GS} = 0		1	V

NOTICE:

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