

isc N-Channel MOSFET Transistor

IPB017N08N5

DESCRIPTION

- Drain Source Voltage
 - : V_{DSS}= 80V(Min)
- Low R_{DS(ON)}
- · Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



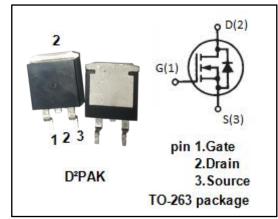
 Designed for Switched Mode Power Supplies (SMPS), motor control,welding, and in general purpose switching resistance applications

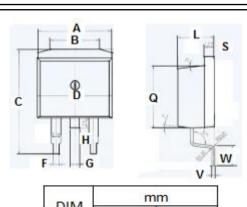
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	ARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	80	V
V_{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-continuous@ TC=25℃	177	А
P _{tot}	Total Dissipation@TC=25℃	375	W
T _j	Max. Operating Junction Temperature	175	$^{\circ}$
T _{stg}	Storage Temperature Range	-55-175	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth j-c	Thermal Resistance,Junction to Case	0.4	°C/W





DIM	m	m
IVIIU	MIN	MAX
Α	9.8	10.2
В	6.6	6.8
C	15.1	15.3
D	9.6	10
F	0.7	0.9
G	1.26	1.3
Н	1.2	1.45
L	4.4	4.6
Q	9.2	9.3
S	1.25	1.35
٧	0.4	0.6
W	2.6	2.8

isc website: www.iscsemi.com

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ELECTRICAL CHARACTERISTICS (Tc=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{(BR)DSS}$	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 1mA	80		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 280uA	2.2	3.8	V
R _{DS(on)1}	Drain-Source On-stage Resistance	V _{GS} = 10V; I _D = 100A		1.7	mΩ
R _{DS(on)2}	Drain-Source On-stage Resistance	V _{GS} = 6V; I _D = 50A		2.1	mΩ
l _{GSS}	Gate Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±100	n A
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 80V; V _{GS} = 0		1	uA
V _{SD}	Forward On-Voltage	I _S = 100A; V _{GS} = 0		1.2	V

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