

isc N-Channel MOSFET Transistor

R8005ANJ

FEATURES

- Drain Current –I_D= 5A@ T_C=25 $^\circ\!\!\mathbb{C}$
- Drain Source Voltage-: V_{DSS}=800V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 2.1 Ω (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.

ABSOLUTE WAXIWOW RATINGS (Ta=25 C)						
SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	800	V			
V_{GS}	Gate-Source Voltage-Continuous	±30	V			
ID	Drain Current-Continuous	5	А			
I _{DM}	Drain Current-Single Pluse	10	A			
P _D	Total Dissipation @T _c =25℃ 120		W			
TJ	Max. Operating Junction Temperature	150	°C			
T _{stg}	Storage Temperature	-55~150	°C			

PARAMETER

Thermal Resistance, Junction to Case

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

THERMAL CHARACTERISTICS

SYMBOL

Rth j-c

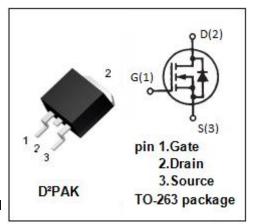
isc website: <u>www.iscsemi.com</u> ¹ isc & ¹

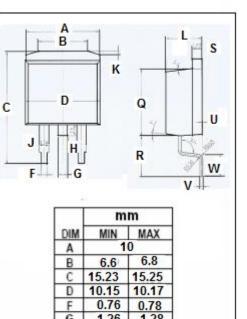
MAX

1.04

UNIT

°C/W





H

K

0

R

s

U

v

W

1.4

1.33

0.4

4.6

5.28

1.26

0.0

0.37

2.80

1.6

0.6

4.8

8.71

5.30

1.28

0.2

0.39

2.82



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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 = 1mA	800		V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =1mA	3	5	V
$R_{\text{DS(on)}}$	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 2.5A		2.1	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 800V; V _{GS} = 0		100	μA
V _{SD}	Forward On-Voltage	I _S = 5A; V _{GS} = 0		1.5	V

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