

isc N-Channel MOSFET Transistor

RD3T050CN

FEATURES

- Drain Current –I_D= 5A@ T_C=25 $^\circ\!\!\mathbb{C}$
- Drain Source Voltage-: V_{DSS}= 200V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 760m 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 MAXIMUM RATINGS(Ta=25 C)							
SYMBOL	PARAMETER	VALUE	UNIT				
V _{DSS}	Drain-Source Voltage	200	v				
V _{GS}	Gate-Source Voltage-Continuous	±30	V				
ID	Drain Current-Continuous	5	A				
I _{DM}	Drain Current-Single Pluse	20	A				
P _D	Total Dissipation @T _c =25℃	29	w				
TJ	Max. Operating Junction Temperature 150		°C				
T _{stg}	Storage Temperature	-55~150	°C				

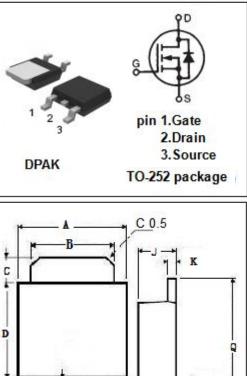
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

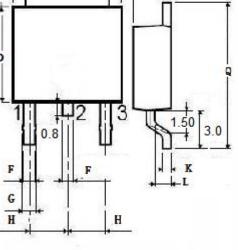
Rth j-c Thermal Resistance, Junction to Case

PARAMETER

THERMAL CHARACTERISTICS

SYMBOL





	mm			
DIM	MIN	MAX		
Α	6.40	6.60		
В	5.20	5.40		
С	1.15	1.35		
D	5.70	6.10		
F	0.65			
G	0.75			
Н	2.10	2.50		
J	2.10	2.40		
κ	0.40	0.60		
L	0.90	1.10		
Q	9.90	10.1		

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

UNIT

°C/W

MAX

4.3



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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	200		V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 1mA	3.25	5.25	V
$R_{\text{DS(on)}}$	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 2.5A		760	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±3V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 200V; V _{GS} = 0		10	μA
V _{SD}	Forward On-Voltage	I _S = 5A; V _{GS} = 0		1.5	V

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