

isc N-Channel MOSFET Transistor

RCJ081N20

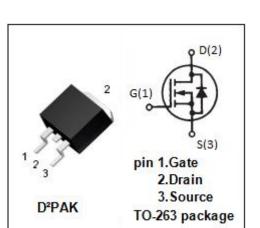
FEATURES

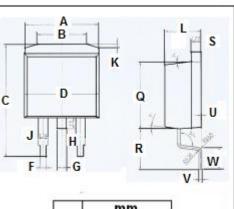
- Drain Current –I_D= 8A@ T_C=25 $^\circ\!\!\mathbb{C}$
- Drain Source Voltage-: V_{DSS}=200V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 0.77 Ω (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

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	8	A			
I _{DM}	Drain Current-Single Pluse	32	A			
P _D	Total Dissipation @T _c =25℃	40	w			
TJ	Max. Operating Junction Temperature	150	°C			
T _{stg}	Storage Temperature -55~15		°C			





	m	m
DIM	MIN	MAX
A	1	0
В	6.6	6.8
С	15.23	15.25
D	10.15	10.17
F	0.76	0.78
G	1.26	1.28
Н	1.4	1.6
J	1.33	1.35
K	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
V	0.37	0.39
W	2.80	2.82

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	3.125	°C /W



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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 = 4A		0.77	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;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 = 8A; V _{GS} = 0		1.5	V

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