

isc N-Channel MOSFET Transistor

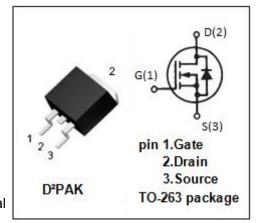
RCJ100N25

FEATURES

- Drain Current –I_D= 10A@ T_C=25 °C
- · Drain Source Voltage-
 - : V_{DSS}=250V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)}$ = 320m 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.

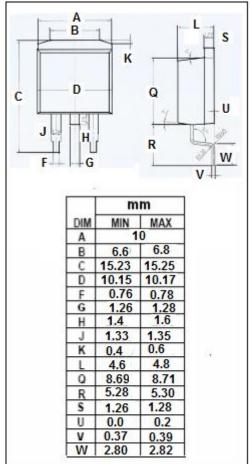


ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	250	V
V _{GS}	Gate-Source Voltage-Continuous	±30	V
I _D	Drain Current-Continuous	10	А
I _{DM}	Drain Current-Single Pluse	40	А
P _D	Total Dissipation @T _C =25°C 85		W
TJ	Max. Operating Junction Temperature 150		$^{\circ}$ C
T _{stg}	Storage Temperature	-55~150	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.46	°C/W





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 1mA	250		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =1mA	3	5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 5A V _{GS} = 10V; I _D = 5A@T _J =125℃		320 730	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 250V; V _{GS} = 0		10	μ А
V _{SD}	Forward On-Voltage	I _S = 10A; V _{GS} = 0		1.5	V



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