

isc N-Channel MOSFET Transistor

R6004JNJ

FEATURES

- Drain Current –I_D=4A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage-: V_{DSS}=600V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 1.43 Ω (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

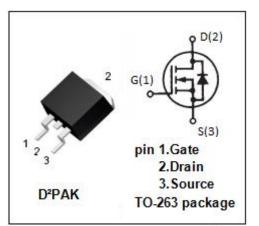
• Designed for use in switch mode power supplies and general purpose applications.

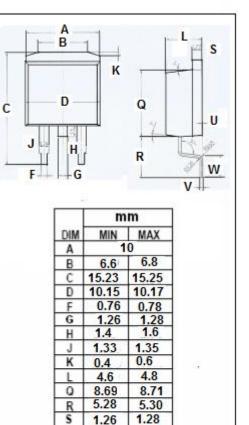
SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage 600		V			
V_{GS}	Gate-Source Voltage-Continuous ±30		V			
ID	Drain Current-Continuous 4		A			
I _{DM}	Drain Current-Single Pluse	12	Α			
P _D	Total Dissipation @T _c =25℃ 60		W			
TJ	Max. Operating Junction Temperature	erating Junction Temperature -55~150				
T _{stg}	Storage Temperature	-55~150	°C			

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	2.11	°C /W





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

U

v

W

0.0

0.37

2.80

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	600		V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} = 5V; I _D =450uA	5.0	7.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 15V; I _D =2A		1.43	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 600V; V _{GS} = 0		100	μA
V _{SD}	Forward On-Voltage	I _S = 4A; V _{GS} = 0		1.7	V

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