

isc N-Channel MOSFET Transistor

R6006JNJ

FEATURES

- Drain Current $-I_D=6A@ T_C=25^\circ C$
- Drain Source Voltage-
: $V_{DSS}=600V(\text{Min})$
- Static Drain-Source On-Resistance
: $R_{DS(on)} = 936m\Omega (\text{Max})$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

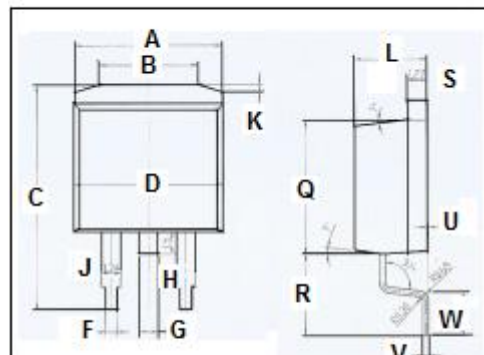
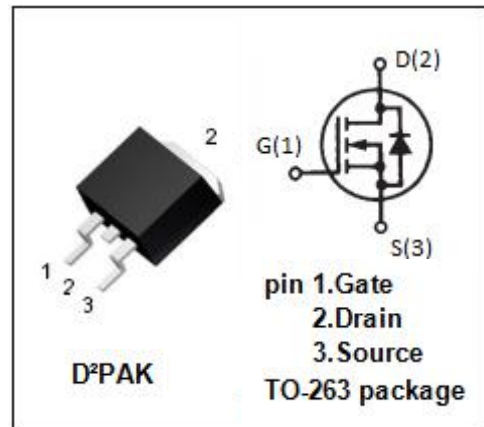
- Designed for use in switch mode power supplies and general purpose applications.

ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ C$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	600	V
V_{GS}	Gate-Source Voltage-Continuous	± 30	V
I_D	Drain Current-Continuous	6	A
I_{DM}	Drain Current-Single Pluse	18	A
P_D	Total Dissipation @ $T_C=25^\circ C$	86	W
T_J	Max. Operating Junction Temperature	-55~150	$^\circ C$
T_{stg}	Storage Temperature	-55~150	$^\circ C$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th j-c}$	Thermal Resistance, Junction to Case	1.45	$^\circ C/W$



DIM	mm	
	MIN	MAX
A	10	
B	6.6	6.8
C	15.23	15.25
D	10.15	10.17
F	0.76	0.78
G	1.26	1.28
H	1.4	1.6
J	1.33	1.35
K	0.4	0.6
L	4.6	4.8
Q	8.69	8.71
R	5.28	5.30
S	1.26	1.28
U	0.0	0.2
V	0.37	0.39
W	2.80	2.82

isc N-Channel MOSFET Transistor**R6006JNJ****ELECTRICAL CHARACTERISTICS****T_C=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	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 =0.8mA	5.0	7.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 15V; I _D =3A		936	mΩ
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 = 6A; V _{GS} = 0		1.7	V

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