

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

RJK6014DPK

• FEATURES

- With TO-3PN packaging
- · High speed switching
- Standard level gate drive
- · Easy to use
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- · Power supply
- Switching applications

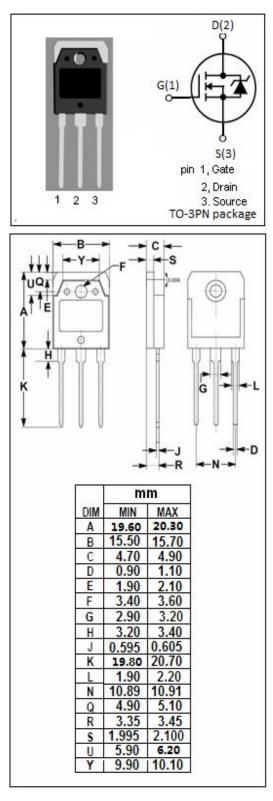
• ABSOLUTE MAXIMUM RATINGS(Ta=25 C)								
SYMBOL	PARAMETER	VALUE	UNIT					
V _{DSS}	Drain-Source Voltage	600	V					
V _{GSS}	Gate-Source Voltage	±30	∧v					
lD	Drain Current-Continuous	16	A					
I _{DM}	Drain Current-Single Pulsed	32	А					
P _D	Total Dissipation	150	W					
Tj	Operating Junction Temperature	-55~150	°C					
T _{stg}	Storage Temperature	-55~150	°C					

• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	0.4	°C /W	
Rth(ch-a)	(ch-a) Channel-to-ambient thermal resistance		°C /W	

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isc website: www.iscsemi.cn

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ELECTRICAL CHARACTERISTICS

 $T_{\text{C}}\text{=}25^{\circ}\!\!\!\!\mathrm{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =10mA	600			V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} =±30V; I _D =1mA	3.0		4.5	V
$R_{\text{DS(on)}}$	Drain-Source On-Resistance	V _{GS} = 10V; I _D =8A		475	575	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} =0V			±0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 600V; V _{GS} = 0;			1	μA
VSDF	Diode forward voltage	I _{SD} =16A, V _{GS} = 0 V			1.5	V



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