

Isc N-Channel MOSFET Transistor

RJK2006DPE

• FEATURES

- · With To-252(DPAK) package
- · Low input capacitance and gate charge
- · Low gate input resistance
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

Switching applications

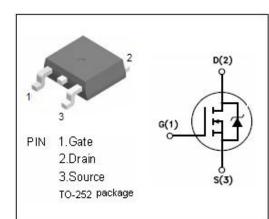


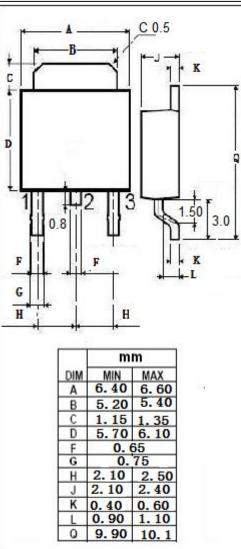
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	200	V	
V _{GSS}	Gate-Source Voltage	±30	V	
I _D	Drain Current-ContinuousTc=25℃ Tc=100℃	40	А	
I _{DM}	Drain Current-Single Pulsed	100	А	
P _D	Total Dissipation @Tc=25℃	100	W	
T _{ch}	Max. Operating Junction Temperature	150	${\mathbb C}$	
T _{stg}	Storage Temperature	-55~150	${\mathbb C}$	



SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	annel-to-case thermal resistance 1.25		
Rth(ch-a) Channel-to-ambient thermal resistance		40	°C/W	





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ELECTRICAL CHARACTERISTICS

T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 10mA	200			V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} =5V; I _D =1mA	3.0		4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =20A		52	59	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =200V; V _{GS} = 0V;Tj=25°C V _{DS} =200V; V _{GS} = 0V;Tj=125°C			1 100	μА
V _{SDF}	Diode forward voltage	I _{SD} =40A, V _{GS} = 0 V		1.0	1.5	V



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