

isc P-Channel MOSFET Transistor

FQD7P20

FEATURES

- Drain Current –I_D= -5.7A@ T_C=25°C
- · Drain Source Voltage-
 - : V_{DSS}= -200V(Min)
- · Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 0.69 \Omega (Max)$
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

pin 1.Gate 2.Drain 3.Source TO-252 package

DESCRIPTION

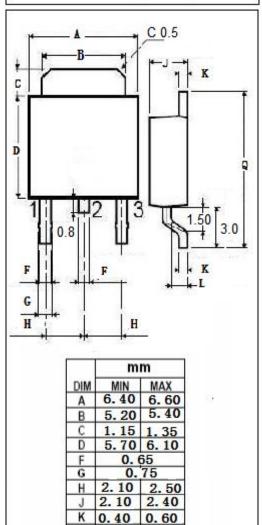
• Designed for use in switch mode power supplies and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

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SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	-200	V			
V _{GS}	Gate-Source Voltage-Continuous	±30	V			
I _D	Drain Current-Continuous	-5.7	А			
I _{DM}	Drain Current-Single Pluse	-22.8	А			
P _D	Total Dissipation @T _C =25℃	55	W			
TJ	Max. Operating Junction Temperature	-55~150	$^{\circ}$			
T _{stg}	Storage Temperature	-55~150	$^{\circ}$			

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	2.27	°C/W





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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = -0.25mA	-200		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = -0.25mA	-3.0	-5.0	٧
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = -10V; I _D = -2.85A		0.69	Ω
Igss	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = -200V; V _{GS} = 0		-1.0	μА
V _{SD}	Forward On-Voltage	I _S = -5.7A; V _{GS} = 0		-5.0	V

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