

isc N-Channel MOSFET Transistor

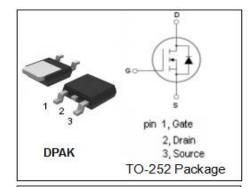
IRFR220

• FEATURES

- Static drain-source on-resistance: $R_{DS}(on) \leq 0.8\Omega$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

- · Fast Switching
- High frequency DC-DC converters

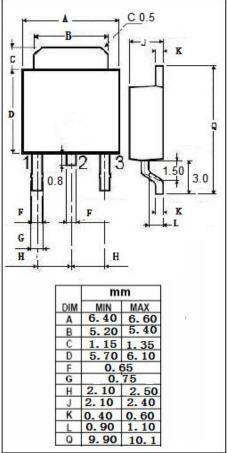


• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	200	V
V _{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous	4.8	А
I _{DM}	Drain Current-Single Pulsed	19	Α
P _D	Total Dissipation @T _C =25°C 42		W
Tj	Max. Operating Junction Temperature	ction Temperature 150	
T _{stg}	Storage Temperature	-55~150	$^{\circ}$



SYMBOL	PARAMETER	MAX	UNIT
R _{th(j-c)}	Channel-to-case thermal resistance	2.98	°C/W





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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =250 μ A	200			V
V _{GS(th)}	Gate Threshold Voltage	VDS=VGS; I _D =250 μ A	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =2.9A			0.8	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V			±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =200V; V _{GS} = 0V			25	μ А
V _{SD}	Diode forward voltage	I _s =4.8A, V _{GS} = 0V			1.8	V



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