

isc N-Channel MOSFET Transistor

IRFR4620, IIRFR4620

FEATURES

- Static drain-source on-resistance:
 R_{DS}(on)≤78mΩ
- Enhancement mode:
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

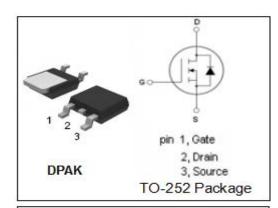
· High Speed Power Switching

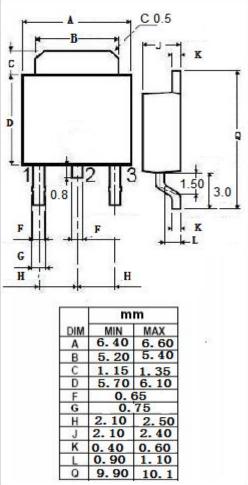
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	200	V	
V_{GS}	Gate-Source Voltage	±20	V	
I _D	Drain Current-Continuous	24	А	
I _{DM}	Drain Current-Single Pulsed	100	А	
P _D	Total Dissipation @T _C =25°C	144	W	
Tj	Max. Operating Junction Temperature	175	$^{\circ}$ C	
T _{stg}	Storage Temperature	-55~175	$^{\circ}$	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT	
Rth(j-c)	Channel-to-case thermal resistance	1.045	°C/W	
Rth(j-a)	Channel-to-ambient thermal resistance	110	°C/W	







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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =250 μ A	200			V
$V_{\text{GS(th)}}$	Gate Threshold Voltage	VDS=VGS; I _D =100 μ A	3		5	V
$R_{DS(on)}$	Drain-Source On-Resistance	V _{GS} =10V; I _D =15A			78	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V			±0.1	μ А
I _{DSS}	Drain-Source Leakage Current	V _{DS} =200V; V _{GS} = 0V			20	μА
V _{SD}	Diode forward voltage	I _s =15A, V _{GS} = 0V			1.3	V

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