

isc N-Channel MOSFET Transistor

IRFR8314, IIRFR8314

FEATURES

- Static drain-source on-resistance:
 R_{DS}(on)≤2.2mΩ
- Enhancement mode:
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

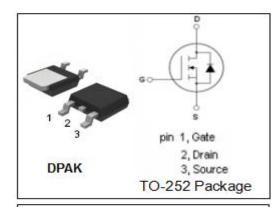
· Optimized for UPS/Inverter Applications

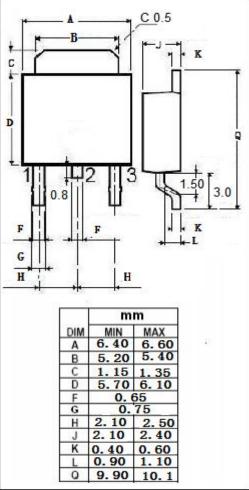
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	30	V	
V _{GS}	Gate-Source Voltage	±20	V	
ID	Drain Current-Continuous	90	Α	
I _{DM}	Drain Current-Single Pulsed	357	А	
P _D	Total Dissipation @T _C =25°C	125	W	
Tj	Max. Operating Junction Temperature	perature 175		
T _{stg}	Storage Temperature	-55~175	$^{\circ}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(j-c)	Channel-to-case thermal resistance	1.2	°C/W
Rth(j-a)	Rth(j-a) Channel-to-ambient thermal resistance		°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	30			V
V _{GS} (th)	Gate Threshold Voltage	VDS=VGS; I _D =100 μ A	1.2		2.2	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =90A			2.2	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V			±0.2	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =24V; V _{GS} = 0V			1	μА
V _{SD}	Diode forward voltage	I _s =72A, V _{GS} = 0V			1	V

NOTICE:

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