

isc N-Channel MOSFET Transistor

IRFR3910, IIRFR3910

FEATURES

- Static drain-source on-resistance:
 R_{DS}(on)≤115mΩ
- Enhancement mode:
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

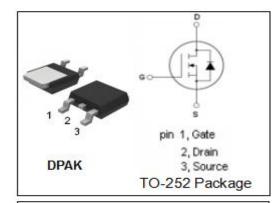
· Fast switching

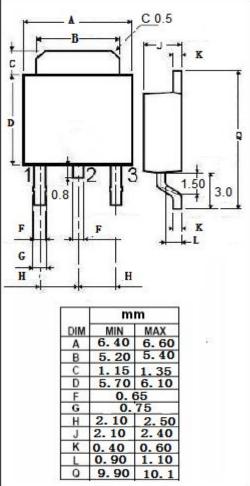
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
$V_{ extsf{DSS}}$	Drain-Source Voltage	100	V	
V _{GS}	Gate-Source Voltage	±20	V	
ID	Drain Current-Continuous	16	Α	
I _{DM}	Drain Current-Single Pulsed	60	А	
P _D	Total Dissipation @T _C =25°C 79		W	
Tj	Max. Operating Junction Temperature	175	$^{\circ}$	
T _{stg}	Storage Temperature	-55~175	$^{\circ}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(j-c)	Channel-to-case thermal resistance	1.9	°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	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =250 μ A	100			V
$V_{\text{GS(th)}}$	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 =10A			115	$\mathbf{m}\Omega$
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V			±0.1	μ А
I _{DSS}	Drain-Source Leakage Current	V _{DS} =100V; V _{GS} = 0V			25	μ А
V _{SD}	Diode forward voltage	I _s =9A, V _{GS} = 0V			1.3	V

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