

isc N-Channel MOSFET Transistor

IRFR3410, IIRFR3410

FEATURES

- Static drain-source on-resistance:
 R_{DS}(on)≤39mΩ
- Enhancement mode:
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

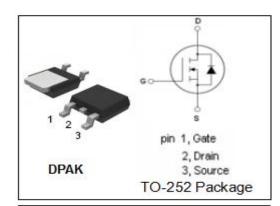
· High frequency DC-DC converters

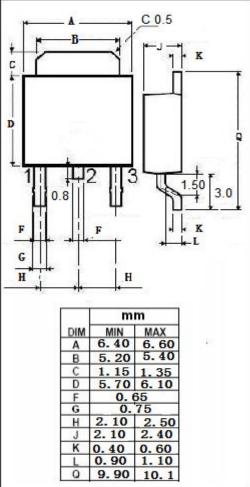
• ABSOLUTE MAXIMUM RATINGS($T_a=25^{\circ}C$)

SYMBOL	PARAMETER	VALUE	UNIT	
V_{DSS}	Drain-Source Voltage	100	V	
V_{GS}	Gate-Source Voltage	±20	V	
I _D	Drain Current-Continuous	31	А	
I _{DM}	Drain Current-Single Pulsed	125	А	
P _D	Total Dissipation @Tc=25°C	110	W	
Tj	Max. Operating Junction Temperature	175	$^{\circ}$ C	
T _{stg}	Storage Temperature	-55~175	$^{\circ}$	

• THERMAL CHARACTERISTICS

SYMBOL	OL PARAMETER		UNIT
Rth(j-c)	Channel-to-case thermal resistance	1.4	°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

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SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT			
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =250 μ A	100			V			
$V_{\text{GS}(\text{th})}$	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 =18A			39	mΩ			
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V			±0.2	μА			
I _{DSS}	Drain-Source Leakage Current	V _{DS} =100V; V _{GS} = 0V			20	μА			
V_{SD}	Diode forward voltage	I _s =18A, V _{GS} = 0V			1.3	V			

NOTICE:

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