

isc N-Channel MOSFET Transistor

IRFI4110G,IIRFI4110G

FEATURES

- Low drain-source on-resistance:
 R_Ds(on) ≤4.5mΩ (max)
- Enhancement mode
- · Fast Switching Speed
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

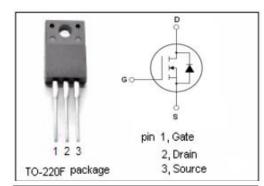
- · High speed power switching
- · Hard switch and high frequency circuits

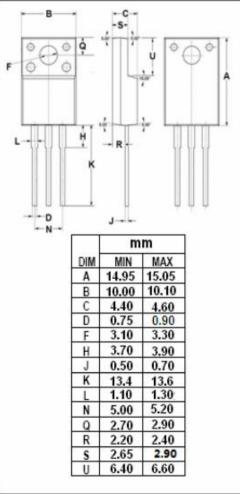
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	100	V	
V _{GS}	Gate-Source Voltage	±20	V	
I _D	Drain Current-Continuous	72	А	
I _{DM}	Drain Current-Single Pulsed	290	А	
P _D	Total Dissipation @T _C =25°C	61	W	
Tj	Max. Operating Junction Temperature 175		$^{\circ}\mathbb{C}$	
T _{stg}	Storage Temperature	-55~175	${\mathbb C}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	2.46	°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 =0.25mA	100			V
$V_{\text{GS(th)}}$	Gate Threshold Voltage	V_{DS} = V_{GS} ; I_D =0.25mA	2.0		4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =43A			4.5	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =100V; V _{GS} = 0V			20	μА
V_{SD}	Diode forward voltage	I _{DR} =43, V _{GS} = 0 V			1.3	V



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