

isc N-Channel MOSFET Transistor

IRFI4410Z,IIRFI4410Z

FEATURES

- Low drain-source on-resistance:
 R_{DS}(on) ≤ 9.3mΩ (max)
- Enhancement mode
- · Fast Switching Speed
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

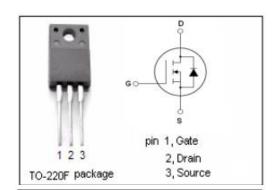
• Device for use in a wide variety of applications

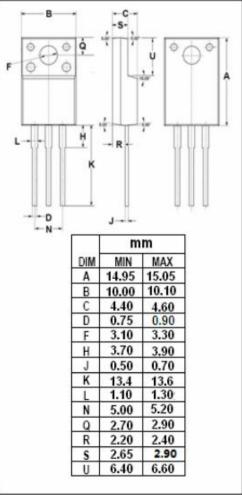
• ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	100	V
V _{GS}	Gate-Source Voltage	±30	V
I _D	Drain Current-Continuous	43	Α
I _{DM}	Drain Current-Single Pulsed	170	А
P _D	Total Dissipation @T _C =25°C 47		W
Tj	Max. Operating Junction Temperature	175	$^{\circ}$ C
T _{stg}	Storage Temperature	-55~175	$^{\circ}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	3.2	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =1mA	100			V
$V_{\text{GS(th)}}$	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =150uA	2.0		4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =26A			9.3	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} =26A, V _{GS} = 0 V			1.3	V



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