

iscN-Channel MOSFET Transistor

IRFIZ24G

• FEATURES

- Low drain-source on-resistance:
 R_{DS}(ON) = 0.1Ω (MAX)
- Enhancement mode: Vth = 2.0 to 4.0V (Vps = 10 V, Ip=0.25mA)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

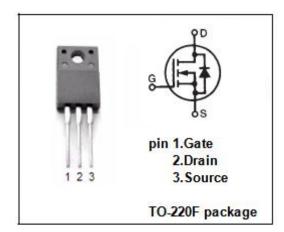
· Switching Voltage Regulators

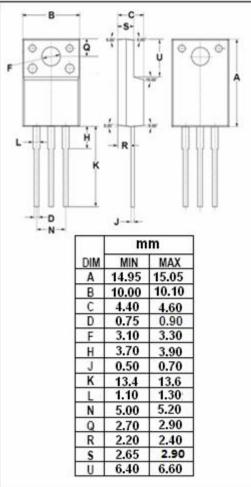
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	60	V
V _G s	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous	14	А
Ірм	Drain Current-Single Pulsed	56	А
P _D	Total Dissipation @T _C =25℃	37	W
Tj	Max. Operating Junction Temperature -55~150		$^{\circ}$ C
T _{stg}	Storage Temperature	-55~150	${\mathbb C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	4.1	°C/W







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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 0.25mA	60			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D =0.25mA	2.0		4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =8.4A			0.1	Ω
lgss	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =60V; V _{GS} = 0V V _{DS} =48V; V _{GS} = 0V;T _J =125℃			25 250	uA
V _{SDF}	Diode forward voltage	I _{DR} =14A, V _{GS} = 0 V			1.5	V

NOTICE:

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