

iscN-Channel MOSFET Transistor

IRLIZ34G

• FEATURES

- Low drain-source on-resistance: $R_{DS}(ON) \leq 50m\Omega$ @V_{GS}=5V
- Enhancement mode: Vth = 1.0 to 2.0V (Vps = 10 V, Ip=0.25mA)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

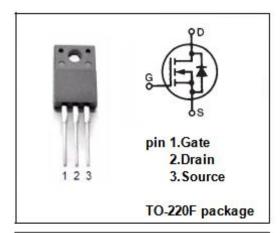
· Switching Voltage Regulators

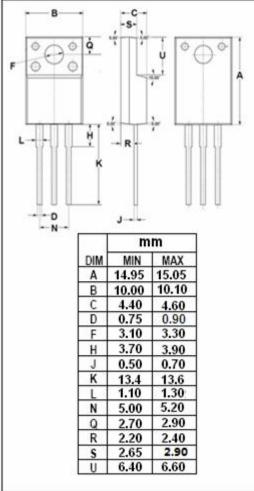
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	60	V	
V _G s	Gate-Source Voltage	±10	V	
I _D	Drain Current-Continuous	20	А	
Ірм	Drain Current-Single Pulsed 80		А	
P _D	Total Dissipation @T _C =25°C 42		W	
Tj	Max. Operating Junction Temperature	x. Operating Junction Temperature -55~175		
T _{stg}	Storage Temperature	-55~175	$^{\circ}$ C	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	3.6	°C/W







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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 0.25mA	60			V
$V_{\text{GS(th)}}$	Gate Threshold Voltage	V _{DS} = 10V; I _D =0.25mA	1.0		2.0	٧
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =5V; I _D =12A V _{GS} =4V; I _D =10A			50 70	mΩ
lgss	Gate-Source Leakage Current	V _{GS} = ±10V;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°C			25 250	uA
V _{SDF}	Diode forward voltage	I _{DR} =20A, V _{GS} = 0 V			1.6	V

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