

iscN-Channel MOSFET Transistor

IRFIZ34G

• FEATURES

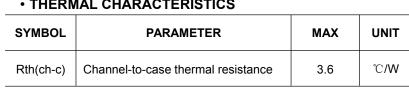
- Low drain-source on-resistance: $R_{DS}(ON) \leq 50m\Omega @V_{GS}=10V$
- Enhancement mode:
 - Vth = 2.0 to 4.0V (VDs = 10 V, ID=0.25mA)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

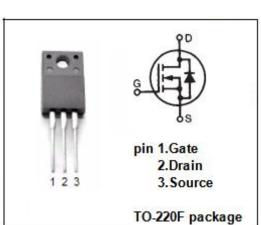
Switching Voltage Regulators

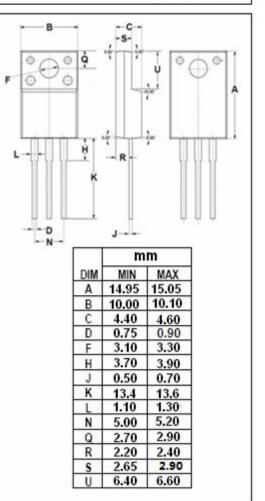
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT				
V _{DSS}	Drain-Source Voltage	60	V				
V _{GS}	Gate-Source Voltage	±20	V				
lo	Drain Current-Continuous	20	A				
Ідм	Drain Current-Single Pulsed	80	A				
P _D	Total Dissipation @T _c =25℃	42	W				
Tj	Max. Operating Junction Temperature	-55~175	°C				
T _{stg}	Storage Temperature	-55~175	Ĉ				
THERMAL CHARACTERISTICS							



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ELECTRICAL CHARACTERISTICS

$T_{\texttt{C}}\text{=}25^{\circ}\!\!\!\mathbb{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	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 =12A			50	mΩ
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°C			25 250	uA
V _{SDF}	Diode forward voltage	I _{DR} =20A, V _{GS} = 0 V			1.6	V

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