

iscN-Channel MOSFET Transistor

IRFR214

RDS(• Enhand Vth = • 100% a • Minimu perform • DESCE	ain-source on-resistance: ON) $\leq 2.0\Omega$ @V _{GS} =10V cement mode: = 2.0 to 4.0V (V _{DS} = 10 V, I _D =0.25m avalanche tested m Lot-to-Lot variations for robust denance and reliable operation RITION ng Voltage Regulators	·		DPAK C 0.5
• ABSOI	UTE MAXIMUM RATINGS(T _a =25			
SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	250	V	
V _{GS}	Gate-Source Voltage	±20	V	
lD	Drain Current-Continuous	2.2	A	
Ідм	Drain Current-Single Pulsed	8.8	A	F F A K
P _D	Total Dissipation @T _C =25℃	25	w	
Tj	Max. Operating Junction Temperature	-55~150	°C	DIM MIN MAX
T _{stg}	Storage Temperature	-55~150	°C	A 6.40 6.60 B 5.20 5.40 C 1.15 1.35 D 5.70 6.10
• THERM	IAL CHARACTERISTICS			F 0.65 G 0.75
SYMBOL	PARAMETER	МАХ	UNIT	H 2.10 2.50 J 2.10 2.40 K 0.40 0.60
Rth(ch-c)	Channel-to-case thermal resistance	5.0	°C/W	L 0.90 1.10 0 9.90 10.1



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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	250			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 =1.3A			2.0	Ω
lgss	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =250V; V _{GS} = 0V V _{DS} =200V; V _{GS} = 0V;T _J =125°C			25 250	uA
V _{SDF}	Diode forward voltage	I _{DR} =2.2A, V _{GS} = 0 V			2.0	V

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