

iscN-Channel MOSFET Transistor

IRFBG20

 FEATURES Low drain-source on-resistance: RDS(ON) = 11Ω (MAX) Enhancement mode: Vth = 2 to 4V (VDS = 10 V, ID=0.25mA) 100% avalanche tested Minimum Lot-to-Lot variations for robust device performance and reliable operation 					
	ng Voltage Regulators				
SYMBOL	PARAMETER	VALUE	UNIT		
V _{DSS}	Drain-Source Voltage	1000	V		
V_{GS}	Gate-Source Voltage	±20	v		
ID	Drain Current-Continuous	1.4	A		
I _{DM}	Drain Current-Single Pulsed	5.6	A		
PD	Total Dissipation @T₀=25℃	54	w		
Tj	Max. Operating Junction Temperature	-55~150	°C		
T _{stg}	Storage Temperature	-55~150	°C		
• THERM					
SYMBOL	PARAMETER	МАХ	UNIT		

isc website: www.iscsemi.cn

¹ *isc & iscsemi* is registered trademark



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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 0.25mA	1000			V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} = 10V; I _D =0.25mA	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =0.84A			11	Ω
lgss	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =1000V; V _{GS} = 0V V _{DS} =800V; V _{GS} = 0V;T _J =125°C			100 500	μA
V _{SDF}	Diode forward voltage	I _{DR} =1.4A, V _{GS} = 0 V			1.5	V

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