

isc N-Channel MOSFET Transistor

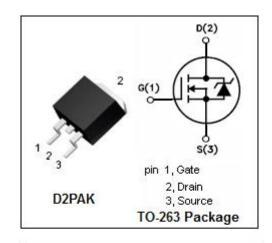
IRF3205STRLPBF

DESCRIPTION

- Drain Current I_D=110A@ T_C=25°C
- · Drain Source Voltage
 - : V_{DSS}= 55V(Min)
- · Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

 Designed for high current, high speed switching, switch mode power supplies.

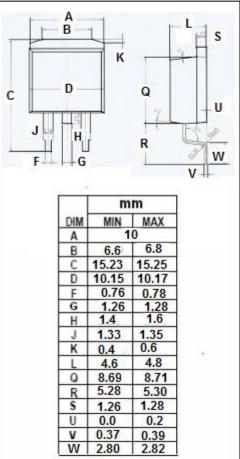


ABSOLUTE MAXIMUM RATINGS(Tc=25℃)

SYMBOL	ARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	55	V
V _{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-continuous@ T _C =25°C		А
I _{DM}	Pulse Drain Current	390	А
P _{tot}	Total Dissipation@T _C =25℃	200	W
Tj	Max. Operating Junction Temperature	175	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~175	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.75	°C/W





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• ELECTRICAL CHARACTERISTICS (Tc=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 250μA	55			V
$V_{GS(th)}$	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =250μA	2.0		4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =62A			8	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =55V; V _{GS} = 0			25	μA
V _{SD}	Diode Forward On-Voltage	I _S =62A ;V _{GS} = 0			1.3	V

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