

isc N-Channel MOSFET Transistor

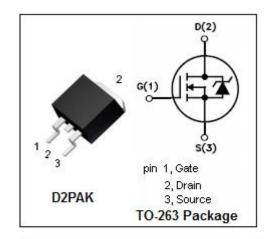
IRF2804S

DESCRIPTION

- Static drain-source on-resistance:
 R_{DS}(on) ≤6mΩ@V_{GS}= 10V
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

• Provides the designer with an extremely efficient and reliable device for use in a wide variety of applications.

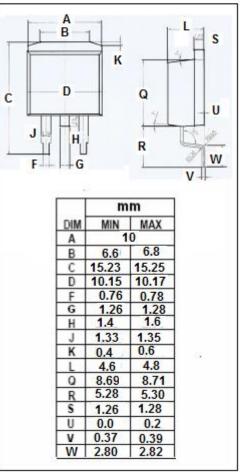


ABSOLUTE MAXIMUM RATINGS(T_C=25°C)

SYMBOL	ARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage (V _{GS} =0)	40	V
V _G s	Gate-Source Voltage ±20		V
I _D	Drain Current-continuous@T _C =100°C	200	А
I _{DM}	Pulse Drain Current	1080	А
P _{tot}	Total Dissipation	330	W
T _j	Max. Operating Junction Temperature 175		${\mathbb C}$
T _{stg}	Storage Temperature Range -55~175		$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.45	°C/W





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• ELECTRICAL CHARACTERISTICS (T_C=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 250μA	40			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =250μA	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =75A			2	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 40V; V _{GS} = 0;T _j =25℃			20	μΑ
		V _{DS} = 40V; V _{GS} = 0;T _j =125℃			250	
V _{SD}	Diode Forward On-Voltage	I _S = 75A ;V _{GS} = 0			1.3	V



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