

isc N-Channel MOSFET Transistor

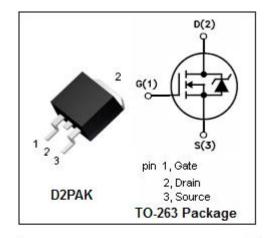
IPB055N03L

DESCRIPTION

- Drain Current :I_D= 50A@ T_C=25°C
- Drain Source Voltage
 - : V_{DSS}= 30V(Min)
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

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

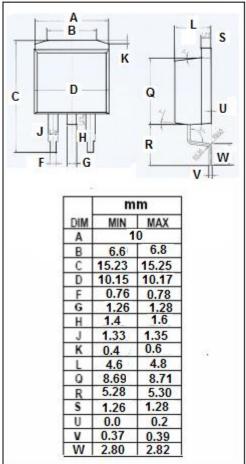


ABSOLUTE MAXIMUM RATINGS(T_C=25°C)

SYMBOL	ARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	30	V
V _{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-continuous	50	А
I _{D(puls)}	Pulse Drain Current	350	А
P _{tot}	Total Dissipation	68	W
T _j	Max. Operating Junction Temperature 175		$^{\circ}$ C
T _{stg}	Storage Temperature Range -55		$^{\circ}$ C

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	2.2	°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 = 1mA	30			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =250μA	1		2.2	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =30A			5.5	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = 20V;V _{DS} = 0			100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 30V; V _{GS} = 0;T _j =25℃			1	μΑ
		V _{DS} = 30V; V _{GS} = 0;T _j =125℃			100	
V _{SD}	Diode Forward On-Voltage	I _F = 30A;V _{GS} = 0			1.1	V



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