

isc N-Channel MOSFET Transistor

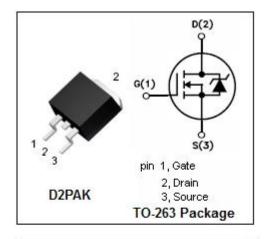
IPB065N03L

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.

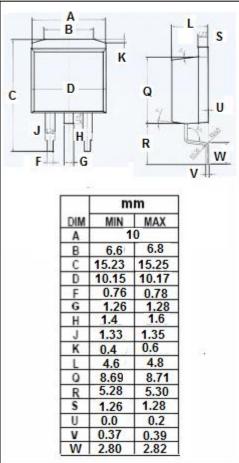


ABSOLUTE MAXIMUM RATINGS(T_C=25°C)

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		А
I _{D(puls)}	Pulse Drain Current	350	А
P _{tot}	Total Dissipation	56	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	2.7	°C/W





isc N-Channel MOSFET Transistor

IPB065N03L

• ELECTRICAL CHARACTERISTICS (Tc=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			6.5	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



ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications. ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.