

isc N-Channel MOSFET Transistor

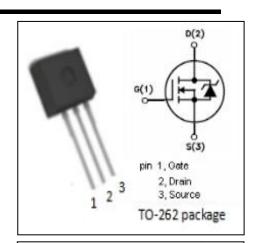
BUZ31H3046

• FEATURES

- Enhancement mode
- · Fast Switching Speed
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

• reliable device for use in a wide variety of applications



• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V_{DSS}	Drain-Source Voltage	200	V	
V _G s	Gate-Source Voltage	±20	V	
I _D	Drain Current-Continuous	14.5	А	
I _{DM}	Drain Current-Single Pulsed	58	A	
P _D	Total Dissipation @T _c =25℃	95	W	
Tj	T _j Max. Operating Junction Temperature T _{stg} Storage Temperature		${\mathbb C}$	
T _{stg}			°C	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	1.32	°C/W	

	1	1 5	+-
	4		£4
	n	ım	VVV
DIM	559 575,582	MAX	
A	4.37	4.77	
A1	1.22	1.42	
A2	2.47	2.87	
ь	0.70	0.97	
ь2	1.17	1.42	
C	0.28	0.53	
D	23.20	24.02	-
D1 D2	8.38 6.00	8.90	
E	9.90	10.39	
E4	7.30	10.09	
e E4	5776 101725	4BSC	1
G	1.25	1.50	
H2	-	1.31	
L	13.34	14.10	
L1	3.30	4.06	
L3	0.95	1.15	
	10.00	12.10	ı



isc N-Channel MOSFET Transistor

BUZ31H3046

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; ID =0.25mA	200			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID =1mA	2.1		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =5V; I _D =9A			0.2	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} =±200V;V _{DS} =0V			±0.1	μ A
I _{DSS}	Drain-Source Leakage Current	V _{DS} =200V; V _{GS} = 0V			1	μА
V _{SD}	Diode forward voltage	IF=29A, V _{GS} = 0 V			1.6	V

NOTICE:

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.

isc website: www.iscsemi.cn