

isc N-Channel MOSFET Transistor

BFC41

FEATURES

- ·Drain Current -I_D=11A@ T_C=25℃
- ·Drain Source Voltage -V_{DSS}=1000V(Min)
- ·Static Drain-Source On-Resistance
- $-R_{DS(on)} = 1.0\Omega(Max)$

DESCRIPTION

 Motor drive, DC-DC converter, power switch and solenoid drive.

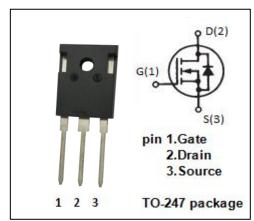
ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

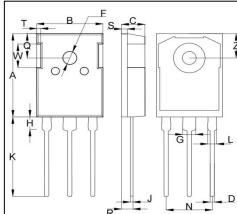
SYMBOL	PARAMETER	VALUE	UNIT		
V _{DSS}	Drain-Source Voltage	1000	V		
V _{GS}	Gate-Source Voltage-Continuous	±30	V		
I _D	Drain Current-Continuous	11	А		
I _{DM}	Drain Current-Single Pluse	44	А		
P _D	Total Dissipation @T _C =25℃	310	W		
TJ	Max. Operating Junction Temperature	150	$^{\circ}$		
T _{stg}	Storage Temperature	-55~150	°C		

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.4	°C/W

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D. 11. 1	mm			
DIM	MIN	TYP.	MAX	
Α	19.80	20.65	21.50	
В	15.40	15.65	15.90	
C	4.70	5.00	5.30	
D	0.90	1.08	1.26	
F	3.50	3.70	3.90	
G	2.70	3.00	3.30	
Н	3.90	4.00	4.10	
J	0.50	0.60	0.70	
K	19.50	20.00	20.50	
L	1.90	2.05	2.20	
N	10.80	10.90	11.00	
Q	6.00	6.15	6.30	
R	2.90	3.10	3.30	
S	1.80	2.00	2.20	
T	2.15	2.25	2.35	
W	4.90	5.00	5.10	
Z	6.00	6.15	6.30	



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ELECTRICAL CHARACTERISTICS (T_C=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D =0.25mA	1000			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 1mA	2.0		4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =5.5A			1.0	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =800V; V _{GS} = 0			250	uA
V _{SD}	Forward On-Voltage	I _S =11A; V _{GS} = 0			1.3	V

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