

isc N-Channel MOSFET Transistor

FS5VS-5

FEATURES

- ·Drain Current -I_D=5A@ T_C=25 ℃
- ·Drain Source Voltage -V_{DSS}=250V(Min)
- ·Static Drain-Source On-Resistance
- $-R_{DS(on)} = 1.3\Omega(Max)$

DESCRIPTION

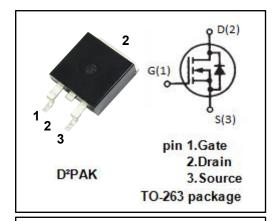
 Motor drive, DC-DC converter, power switch and solenoid drive.

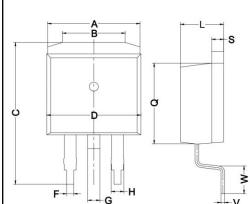
ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	250	V
V _{GS}	Gate-Source Voltage-Continuous	±30	V
I _D	Drain Current-Continuous	5	А
I _{DM}	Drain Current-Single Pluse	15	А
P_D	Total Dissipation @T _C =25℃	60	W
TJ	Max. Operating Junction Temperature	150	${\mathbb C}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	2.08	°C/W





DIM	mm			
	MIN	TYP.	MAX	
Α	9.80	10.00	10.20	
В	6.60	6.70	6.80	
C	15.10	15.20	15.30	
D	9.60	9.80	10.00	
F	0.70	0.80	0.90	
G	1.26	1.28	1.30	
Н	1.20	1.33	1.45	
L	4.40	4.50	4.60	
Q	9.20	9.25	9.30	
S	1.25	1.30	1.35	
V	0.40	0.50	0.60	
W	2.60	2.70	2.80	



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ELECTRICAL CHARACTERISTICS (Tc=25°C unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D =1mA	250			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 1mA	2.0	3.0	4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =2A		1.0	1.3	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±25V;V _{DS} = 0			±10	mA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =250V; V _{GS} = 0			1	mA
V _{SD}	Forward On-Voltage	I _S =2A; V _{GS} = 0	1	1.5	2.0	V

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