TAVAKOL ELECTRONIC
توکل الکترونیک
مرجع تخصصی تأمین قطعات الکترونیکی اورجینال

این دیتاشیت توسط توکل الکترونیک تهیه و ارائه شده است.
جهت مشاهده قیمت، موجودی و ثبت سفارش این قطعه به وب‌سایت توکل الکترونیک مراجعه فرمایید.

مشاهده قیمت و خرید
برای خرید و مشاهده سایر محصولات کلیک کنید

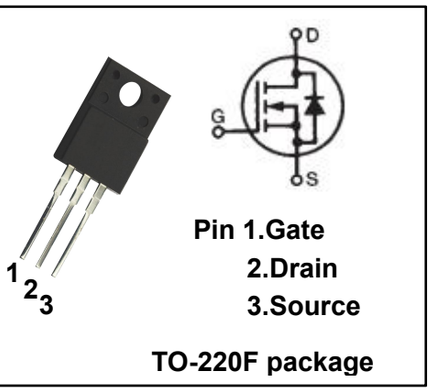
isc®

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor 2SK1102

FEATURES

- Drain Current -I_D= 10A@ T_C=25℃
- Drain Source Voltage -V_{DSS}= 500V(Min)
- Static Drain-Source On-Resistance
  -$R_{DS(on)}$ =0.9Ω(Max)@V_{GS}= 10V



Pin 1.Gate
2.Drain
3.Source

TO-220F package

DESCRIPTION

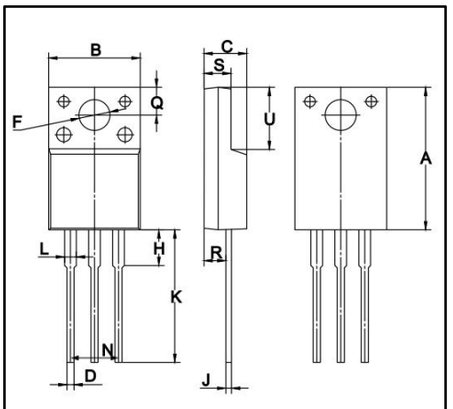
- Motor drive, DC-DC converter, power switch and solenoid drive.

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	500	V
V_{GS}	Gate-Source Voltage-Continuous	±30	V
I_D	Drain Current-Continuous	10	A
I_{DM}	Drain Current-Single Pulse	30	A
P_D	Total Dissipation @T_C=25℃	50	W
T_J	Max. Operating Junction Temperature	150	℃
T_{stg}	Storage Temperature	-55~150	℃

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal Resistance, Junction to Case	2.5	℃/W



DIM	mm		
	MIN	TYP.	MAX
A	14.95	15.00	15.05
B	10.00	10.05	10.10
C	4.40	4.50	4.60
D	0.75	0.83	0.90
F	3.10	3.20	3.30
H	3.70	3.80	3.90
J	0.50	0.60	0.70
K	13.40	13.50	13.60
L	1.10	1.20	1.30
N	5.00	5.10	5.20
Q	2.70	2.80	2.90
R	2.20	2.30	2.40
S	2.65	2.78	2.90
U	6.40	6.50	6.60

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ELECTRICAL CHARACTERISTICS（T_C=25℃ unless otherwise specified）

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{(BR)DSS}$	Drain-Source Breakdown Voltage	V_{GS}= 0; I_D= 1.0mA	500	--	V
I_{DSS}	Zero Gate Voltage Drain Current	V_{DS}= 500V; V_{GS}= 0 V	--	500	uA
I_{GSS}	Gate-Body Leakage Current	V_{GS}= ±30V;V_{DS}= 0 V	--	±100	nA
$V_{GS(th)}$	Gate Threshold Voltage	V_{DS}= V_{GS}; I_D= 1.0mA	2.5	5.0	V
$R_{DS(on)}$	Drain-Source On-Resistance	V_{GS}= 10V; I_D=5A	--	0.9	Ω
V_{SD}	Forward On-Voltage	I_S= 5A; V_{GS}= 0 V	--	1.5	V

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