

isc N-Channel MOSFET Transistor

2SK3772-01

FEATURES

- Drain Current : I_D= 32A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage
- : V_{DSS}= 300V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 0.13 Ω (Max) @ V_{GS}= 10V
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

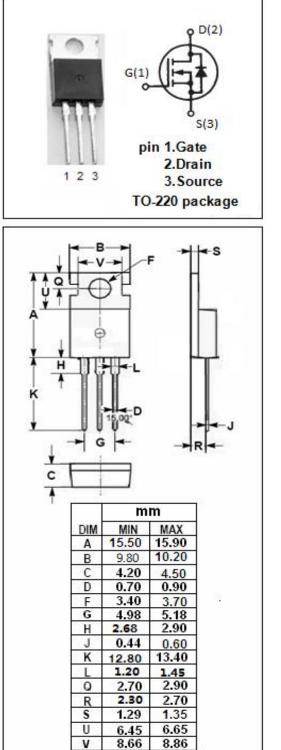
• motor drive, DC-DC converter, power switch and solenoid drive.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

V
V
A
A
W
°C
°C
-

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.463	°C/W



isc website: <u>www.iscsemi.com</u>

¹ *isc & iscsemi* is registered trademark



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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	300		V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} = 10V; I _D = 0.25mA	3.0	5.0	V
R _{DS} (on)	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 16A		0.13	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} =0		±0.1	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 300V; V _{GS} = 0		25	uA
V _{SD}	Forward On-Voltage	I _S = 32A; V _{GS} = 0		1.5	V

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