

isc N-Channel MOSFET Transistor

2SK3273-01MR

FEATURES

- Drain Current : I_D= 70A@ T_C=25 ℃
- Drain Source Voltage
 - : V_{DSS}= 60V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 6.5 \text{m} \Omega \text{ (Max)} @ V_{GS} = 10 \text{V}$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

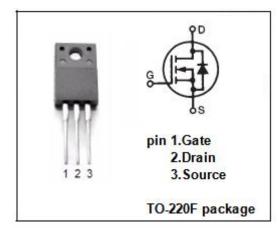
 motor drive, DC-DC converter, power switch and solenoid drive.

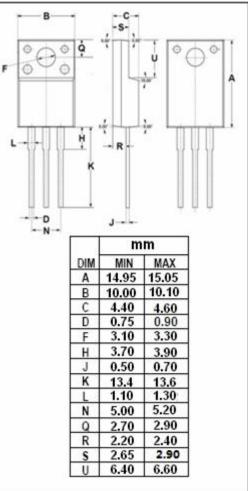
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	60	V
V _{GS}	Gate-Source Voltage-Continuous	±30	V
I _D	Drain Current-Continuous	70	А
I _{DM}	Drain Current-Single Pluse	280	А
P_D	Total Dissipation @T _C =25℃	70	W
TJ	Max. Operating Junction Temperature -55~150		${\mathbb C}$
T _{stg}	Storage Temperature -55~1		$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.79	°C/W







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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 = 1mA	60		V
$V_{\text{GS(th)}}$	Gate Threshold Voltage	V _{DS} = 10V; I _D =0.25mA	2.5	3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =40A	-	6.5	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0	-	±0.1	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 60V; V _{GS} = 0	-	0.1	mA
V_{SD}	Forward On-Voltage	I _S = 80A; V _{GS} = 0	1	1.5	V

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