

**isc N-Channel MOSFET Transistor**
**22SK3272-01L**
**FEATURES**

- Drain Current :  $I_D = 80A @ T_C = 25^\circ C$
- Drain Source Voltage :  $V_{DSS} = 60V(\text{Min})$
- Static Drain-Source On-Resistance :  $R_{DS(on)} = 6.5m\Omega (\text{Max}) @ V_{GS} = 40V$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

**DESCRIPTION**

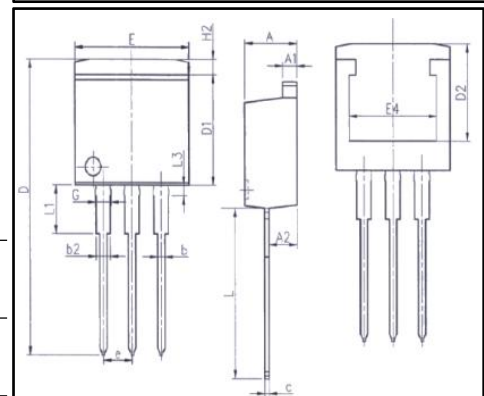
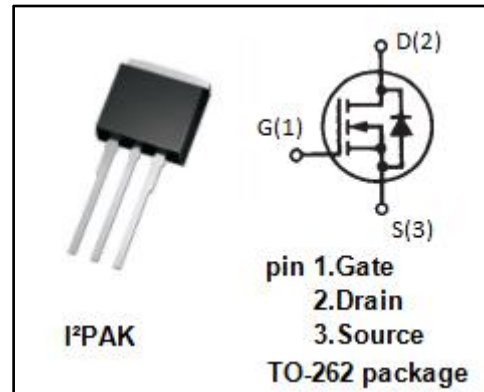
- motor drive, DC-DC converter, power switch and solenoid drive.

**ABSOLUTE MAXIMUM RATINGS( $T_a = 25^\circ C$ )**

SYMBOL	PARAMETER	VALUE	UNIT
$V_{DSS}$	Drain-Source Voltage	60	V
$V_{GS}$	Gate-Source Voltage-Continuous	$\pm 30$	V
$I_D$	Drain Current-Continuous	80	A
$I_{DM}$	Drain Current-Single Pluse	320	A
$P_D$	Total Dissipation @ $T_C = 25^\circ C$	135	W
$T_J$	Max. Operating Junction Temperature	-55~150	$^\circ C$
$T_{stg}$	Storage Temperature	-55~150	$^\circ C$

**THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	0.93	$^\circ C/W$



DIM	MM	
	MIN	MAX
A	4.37	4.77
A1	1.22	1.42
A2	2.47	2.87
b	0.7	0.97
b2	1.17	1.42
c	0.28	0.53
D	23.2	24.02
D1	8.38	8.9
D2	6	/
E	9.9	10.39
E4	7.3	/
E	2.54BSC	
G	1.25	1.5
H2	/	1.31
L	13.34	14.1
L1	3.3	4.06
L3	0.95	1.15

## isc N-Channel MOSFET Transistor

2SK3272-01L

## ELECTRICAL CHARACTERISTICS

 $T_C=25^\circ\text{C}$  unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{(BR)DSS}$	Drain-Source Breakdown Voltage	$V_{GS}=0; I_D=1\text{mA}$	60	--	V
$V_{GS(th)}$	Gate Threshold Voltage	$V_{DS}=10\text{V}; I_D=1\text{mA}$	2.5	2.5	V
$R_{DS(on)}$	Drain-Source On-Resistance	$V_{GS}=40\text{V}; I_D=40\text{A}$	--	6.5	$\text{m}\Omega$
$I_{GSS}$	Gate-Body Leakage Current	$V_{GS}=\pm 30\text{V}; V_{DS}=0$	--	$\pm 0.1$	$\mu\text{A}$
$I_{DSS}$	Zero Gate Voltage Drain Current	$V_{DS}=60\text{V}; V_{GS}=0$	--	0.1	mA
$V_{SD}$	Forward On-Voltage	$I_S=80\text{A}; V_{GS}=0$	--	1.5	V

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