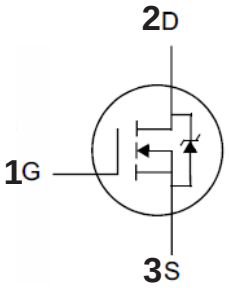
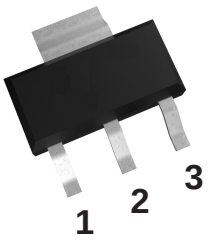
SK02N06E

60V N-Channel MOSFET

Feature

- Logic Level Threshold Voltage
- $R_{DS(ON)}$ =86mΩ(typ.) @ V_{GS}= 10V
- Reliable and Rugged





SOT-223

Applications

- General application
- Boost Converters
- Power Management in DC/AC Inverter Systems.

1. Absolute Maximum Ratings (T_A=25°C Unless Otherwise Noted)

Symbol	Parameter	Rating	Unit
V_{DSS}	Drain-Source Voltage	60	V
V_{GSS}	Gate-Source Voltage	±20	
I_D	Continue Drain Current (T_A=25C)	2.2	A
I_{DM}[a]	Pulsed Drain Current (T_A=25C)	5.5	
I_S	Diode Continuous Forward Current (T_A=25C)	0.6	A
T_J	Maximum Junction Temperature	150	°C
T_{STG}	Storage Temperature Range	-55 to 150	

2. Static Electrical Characteristics (T_A=25°C Unless Otherwise Noted)

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Unit
Static Characteristics						
BV_{DSS}	Drain-Source Breakdown Voltage	V_{GS}=0V, I_{DS}=250μA	60	-	-	V
I_{DSS}	Zero Gate Voltage Drain Current	V_{DS}=48V, V_{GS}=0V	-	-	1	μA
		T_J=85°C	-	-	30	
$V_{GS(th)}$	Gate Threshold Voltage	V_{DS}=V_{GS}, I_{DS}=250μA	1.0	1.8	2.5	V
I_{GSS}	Gate Leakage Current	V_{GS}=±20V, V_{DS}=0V	-	-	±100	nA
$R_{DS(ON)}$	Drain-Source On-state Resistance	V_{GS}=10V, I_{DS}=0.5A	-	86	-	mΩ
		V_{GS}=4.5V, I_{DS}=0.5A	-	100	-	mΩ
V_{SD}	Diode Forward Voltage	I_{SD}=0.5A, V_{GS}=0V	-	-	1.1	V

*Note:
a: Pulse width limited by maximum junction temperature.
b :$R_{\Theta JA}$ is the sum of the thermal impedance from junction to ambient and depend on package type. Surface Mounted on 1in² pad area.

Typical Characteristics

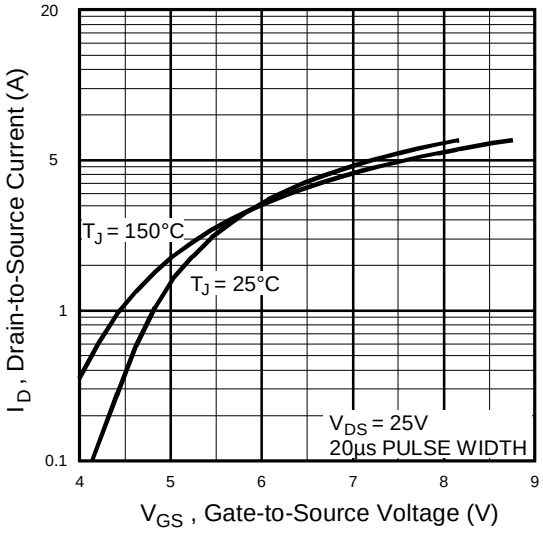


Fig 1. Typical Transfer Characteristics

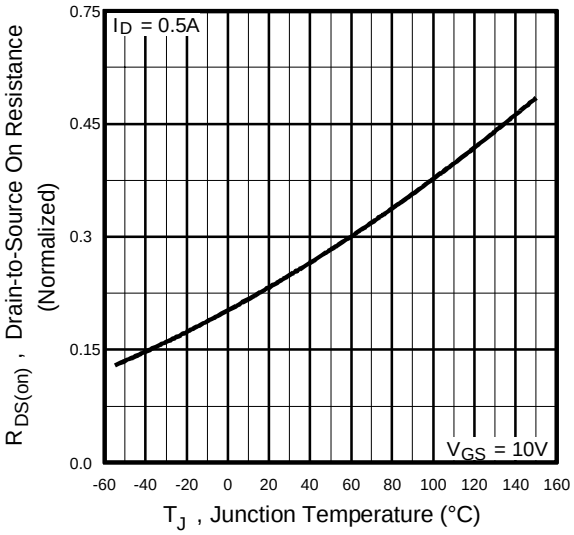


Fig 2. Normalized On-Resistance Vs. Temperature

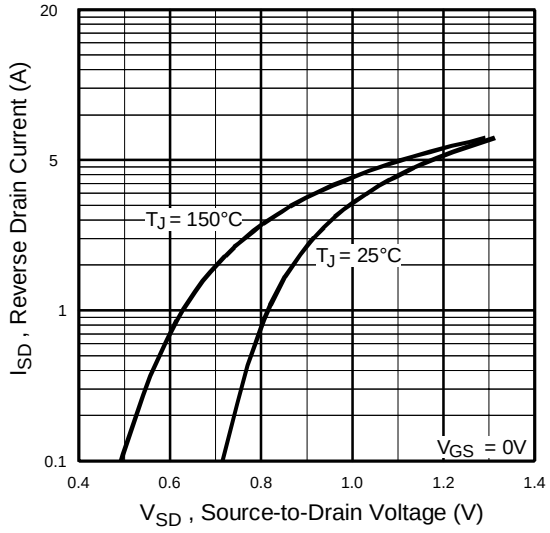


Fig 3. Typical Source-Drain Diode Forward Voltage

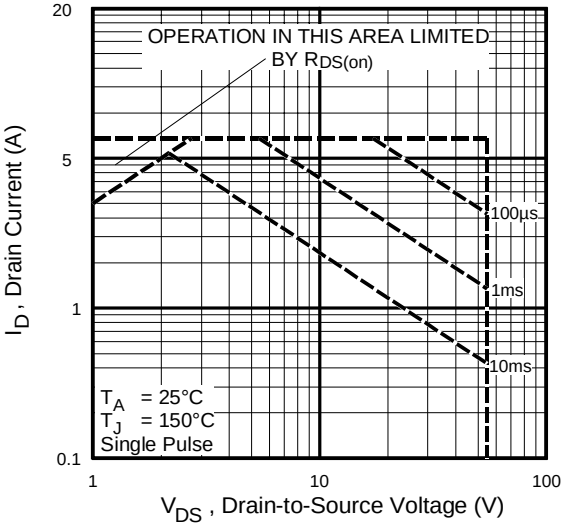
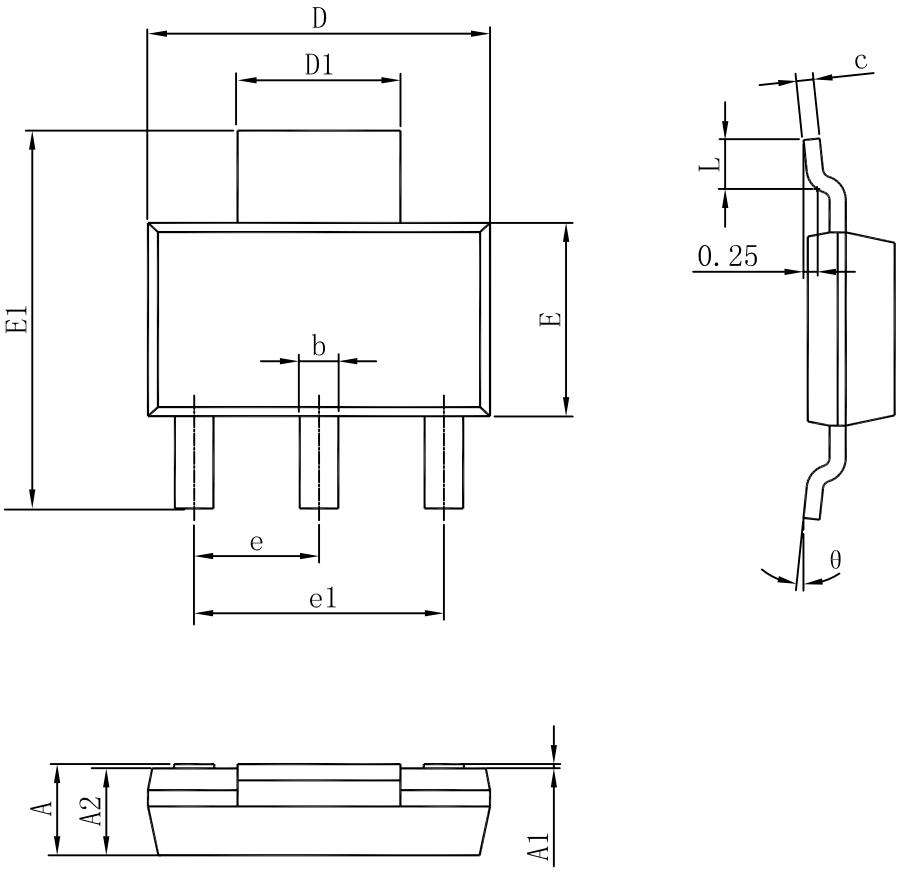


Fig 4. Maximum Safe Operating Area

SOT-223 PACKAGE OUTLINE DIMENSIONS



1.塑脂体无缺损、缩孔、气泡、裂纹等缺陷；
2.树脂体上下部XY方向偏差、树脂体中心与引线框中心错位±0.035；
3.粗糙度Ra为0.4--0.6。

Symbol	Dimensions In Millimeters		
	MIN	NOM	MAX
A	/	/	1.80
A1	0.02	/	0.10
A2	1.50	1.60	1.70
b	0.66	0.71	0.84
c	0.23	0.30	0.35
D	6.30	6.50	6.70
D1	2.90	3.00	3.10
E	3.30	3.50	3.70
E1	6.70	7.00	7.30
e	2.30 BASIC		
e1	4.60 BASIC		
L	0.75	/	/
θ	0°	/	10°

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