

## P-Channel POWER MOSFET

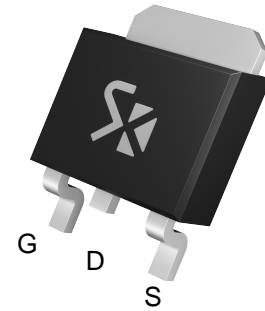
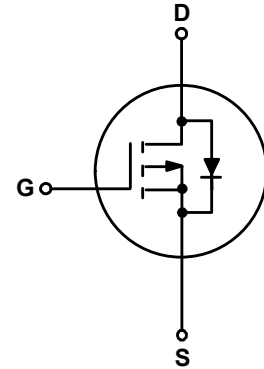
### Feature

- -100V P-Channel MOSFET
- $R_{DS(ON)} = 225\text{ m}\Omega @ V_{GS} = -10\text{ V}$
- $R_{DS(ON)} = 250\text{ m}\Omega @ V_{GS} = -4.5\text{ V}$
- Advanced trench cell design
- High speed switch

### Applications

- Portable appliances
- Battery management

Graphic Symbol



TO-252

### 1. Absolute Maximum Ratings ( $T_A=25^\circ\text{C}$ Unless Otherwise Noted)

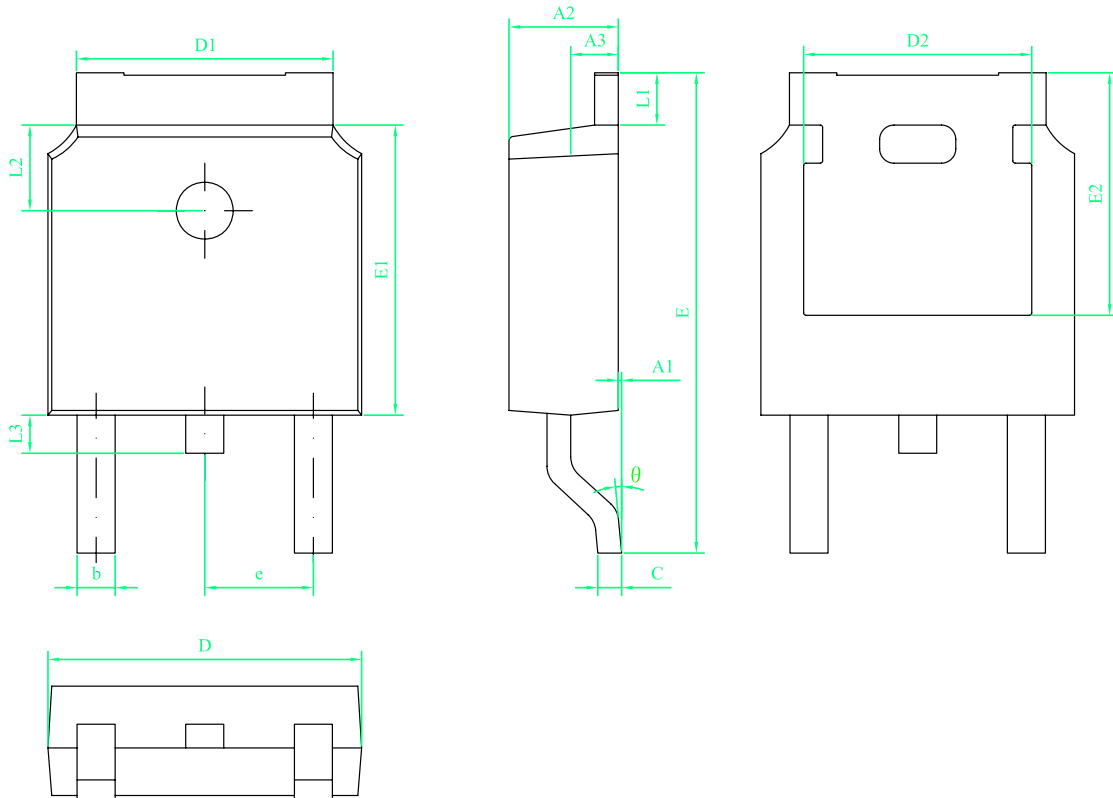
Symbol	Parameter	Rating	Unit
$V_{DSS}$	Drain-Source Voltage	-100	V
$V_{GSS}$	Gate-Source Voltage	$\pm 20$	
$I_D$	Continue Drain Current	-5	A

## 2. Static Electrical Characteristics (T<sub>A</sub>=25°C Unless Otherwise Noted)

Symbol	Parameter	Test Condition	SK50P04			Unit
			Min.	Typ.	Max.	
<b>Static Characteristics</b>						
<b>BV<sub>DSS</sub></b>	Drain-Source Breakdown Voltage	V <sub>GS</sub> =0V, I <sub>DS</sub> =-250μA	-100	-	-	V
<b>I<sub>DSS</sub></b>	Zero Gate Voltage Drain Current	V <sub>DS</sub> =-80V, V <sub>GS</sub> =0V	-	-	-1	μA
		T <sub>J</sub> =85°C	-	-	-30	
<b>V<sub>GS(th)</sub></b>	Gate Threshold Voltage	V <sub>DS</sub> =V <sub>GS</sub> , I <sub>DS</sub> =-250μA	-1.1	-1.5	-2.3	V
<b>I<sub>GSS</sub></b>	Gate Leakage Current	V <sub>GS</sub> =±20V, V <sub>DS</sub> =0V	-	-	±100	nA
<b>R<sub>DS(ON)</sub></b>	Drain-Source On-state Resistance	V <sub>GS</sub> =-10V, I <sub>DS</sub> =-0.5A	-	147	225	mΩ
		V <sub>GS</sub> =-4.5V, I <sub>DS</sub> =-0.5A	-	159	250	
<b>V<sub>SD</sub></b>	Diode Forward Voltage	I <sub>SD</sub> =-0.5A, V <sub>GS</sub> =0V	-	-0.75	-1.3	V

PACKAGE OUTLINE

TO-252 PACKAGE OUTLINE DIMENSIONS



符号	尺寸	
	Min	Max
A1	0.00	0.13
A2	2.18	2.39
A3	0.90	1.10
b	0.65	0.85
c	0.46	0.61
D	6.35	6.73
D1	4.95	5.46
D2	4.32	
E	9.40	10.41
E1	5.97	6.22
E2	5.21	
e	2.286 BSC	
L1	0.89	1.27
L2	1.70	1.90
L3	0.60	1.00
θ	0.00	8.00

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