

Power Mosfet (P-Type 40V)

Features

Advanced trench cell design

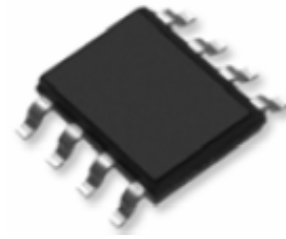
High speed switch

$BV \geq -40\text{ V}$

$R_{DS(ON)} \leq 15\text{ m}\Omega @ V_{GS} = -10\text{ V}$

$R_{DS(ON)} \leq 21\text{ m}\Omega @ V_{GS} = -4.5\text{ V}$

| | | |
|------------|-------------------|-------|
| BV_{DSS} | $R_{DS(ON),typ.}$ | I_D |
| 40V | 12m Ω | 22A |

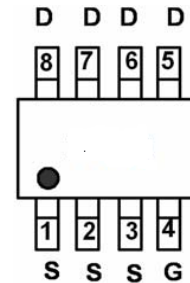


SOP-8 top view

Applications

Portable appliances

Battery management



Marking and pin assignment

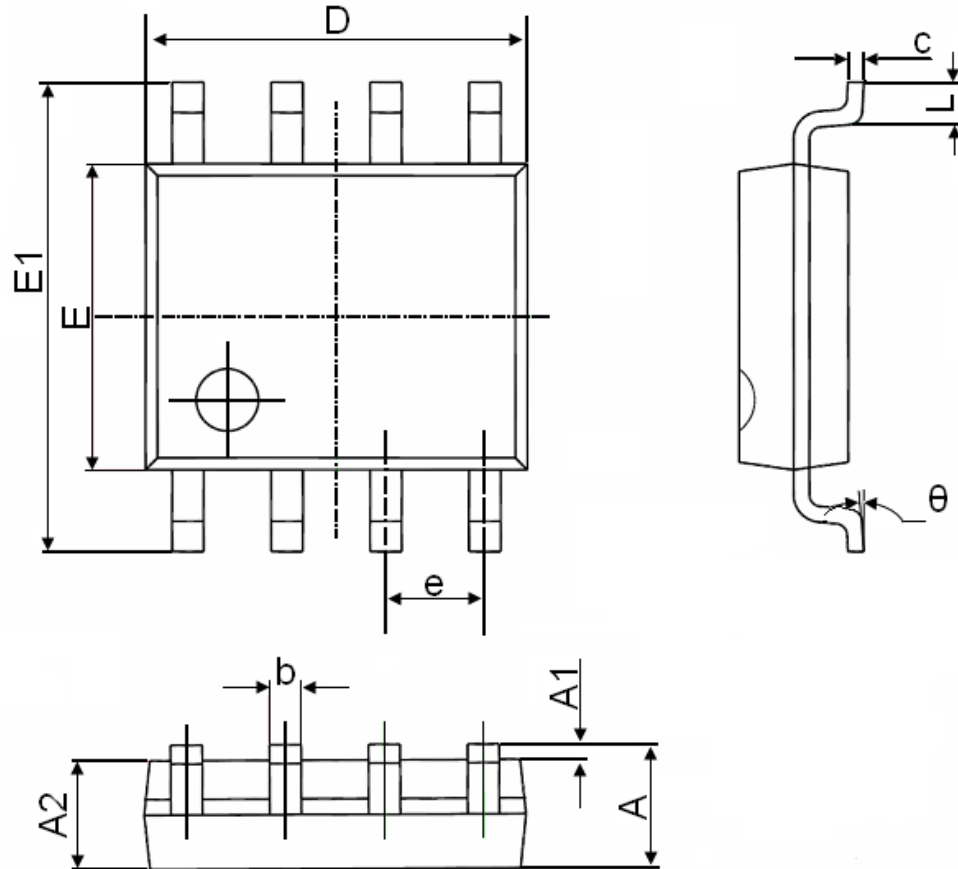
Limiting Values

| Symbol | Parameter | Rating | Unit |
|------------------|---|------------|--------------------|
| V_{DSS} | Drain-Source Voltage | - 40 | V |
| V_{GSS} | Gate-Source Voltage | ± 20 | |
| I_D | Continuous Drain Current | 22 | A |
| $T_J \& T_{STG}$ | Operating and Storage Temperature Range | -55 to 150 | $^{\circ}\text{C}$ |

● Electrical Characteristics (Ta = 25 °C Unless Otherwise Noted)

| Symbol | Parameter | Conditions | Min | Typ | Max | Unit |
|------------------------|--------------------------------|---|------|------|-----------|---------------|
| Static Characteristics | | | | | | |
| BV_{DSS} | Drain-Source Breakdown Voltage | $V_{GS} = 0\text{ V}, I_{DS} = -250\ \mu\text{A}$ | -40 | - | - | V |
| $V_{GS(th)}$ | Gate Threshold Voltage | $V_{DS} = V_{GS}, I_{DS} = -250\ \mu\text{A}$ | -1.0 | -1.5 | -2.0 | V |
| I_{DSS} | Drain Leakage Current | $V_{DS} = -32\text{ V}, V_{GS} = 0\text{ V}$ | - | - | -1 | μA |
| | | $T_J = 85\text{ }^\circ\text{C}$ | - | - | -30 | μA |
| I_{GSS} | Gate Leakage Current | $V_{GS} = \pm 20\text{ V}, V_{DS} = 0\text{ V}$ | - | - | ± 100 | nA |
| $R_{DS(ON)}^a$ | On-State Resistance | $V_{GS} = -10\text{ V}, I_{DS} = -1\text{ A}$ | - | 12 | 15 | m Ω |
| | | $V_{GS} = -4.5\text{ V}, I_{DS} = -1\text{ A}$ | - | 16 | 21 | |
| Diode Characteristics | | | | | | |
| V_{SD} | Diode Forward Voltage | $I_{SD} = -0.5\text{ A}, V_{GS} = 0\text{ V}$ | - | -0.7 | -1.3 | V |

SOP-8 Package Outline Dimensions



| Symbol | Dimensions In Millimeters | | Dimensions In Inches | |
|--------|---------------------------|-------|----------------------|-------|
| | Min. | Max. | Min. | Max. |
| A | 1.350 | 1.750 | 0.053 | 0.069 |
| A1 | 0.100 | 0.250 | 0.004 | 0.010 |
| A2 | 1.350 | 1.550 | 0.053 | 0.061 |
| b | 0.330 | 0.510 | 0.013 | 0.020 |
| c | 0.170 | 0.250 | 0.006 | 0.010 |
| D | 4.700 | 5.100 | 0.185 | 0.200 |
| E | 3.800 | 4.000 | 0.150 | 0.157 |
| E1 | 5.800 | 6.200 | 0.228 | 0.244 |
| e | 1.270(BSC) | | 0.050(BSC) | |
| L | 0.400 | 1.270 | 0.016 | 0.050 |
| θ | 0° | 8° | 0° | 8° |

单击下面可查看定价，库存，交付和生命周期等信息

[>>SHIKUES\(时科\)](#)