



Ordering Information:

Absolute Maximum Ratings $T_c = 25$

| Parameter | Symbol | Rating | Unit |
|-----------|--------|--------|------|
|-----------|--------|--------|------|

Thermal resistance

| Parameter | Symbol | Min. | Typ. | Max. | Unit |
|--|------------|------|------|------|-------|
| Thermal resistance, junction - case | R_{thJC} | - | - | 34 | ° C/W |
| Thermal resistance, junction - ambient | R_{thJA} | - | - | 180 | ° C/W |
| Soldering temperature, wavesoldering for 10s | T_{sold} | - | - | 265 | ° C |

Electronic Characteristics

| Parameter | Symbol | Condition | Min. | Typ | Max. | Unit |
|-----------------------------------|--------------|--------------------------------|------|-----|-----------|------------|
| Drain-Source Breakdown Voltage | BV_{DSS} | $V_{GS}=0V, I_D=-250\mu A$ | -40 | | | V |
| Gate Threshold Voltage | $V_{GS(TH)}$ | $V_{GS}=V_{DS}, I_D=-250\mu A$ | -1.2 | | -2.5 | V |
| Drain-Source Leakage Current | I_{DSS} | $V_{DS}=-40V, V_{GS}=0V$ | | | -1.0 | μA |
| Gate- Source Leakage Current | I_{GSS} | $V_{GS}=\pm 20V, V_{DS}=0V$ | | | ± 100 | nA |
| Static Drain-source On Resistance | | $V_{GS}=-10V, I_D=-6A$ | | 28 | 36 | m Ω |
| | | $V_{GS}=-4.5V, I_D=-4A$ | | 45 | 52 | m Ω |
| Forward Transconductance | g_{FS} | $V_{DS}=-10V, I_D=-5A$ | | 11 | | s |

Dimensions(SOP8)

Unit: mm

| SYMBOL | min | TYP | max | SYMBOL | min | | max |
|--------|------|------|------|--------|------|------|------|
| A | 4.80 | | 5.25 | C | 1.30 | | 1.75 |
| A1 | 0.37 | | 0.49 | C1 | 0.55 | | 0.75 |
| A2 | | 1.27 | | C2 | 0.55 | | 0.65 |
| A3 | | 0.41 | | C3 | 0.05 | | 0.20 |
| B | 5.80 | | 6.20 | C4 | 0.10 | 0.20 | 0.23 |
| B1 | 3.80 | | 4.10 | D | | 1.05 | |
| B2 | | 5.00 | | D1 | 0.40 | | 0.62 |

