

AG 6A ... AG 6M



Silicon Rectifier Cells

with polysiloxan
passivation

AG 6A ... AG 6M

Forward Current: 6 A

Reverse Voltage: 50 to 1000 V

Publish Data

Features

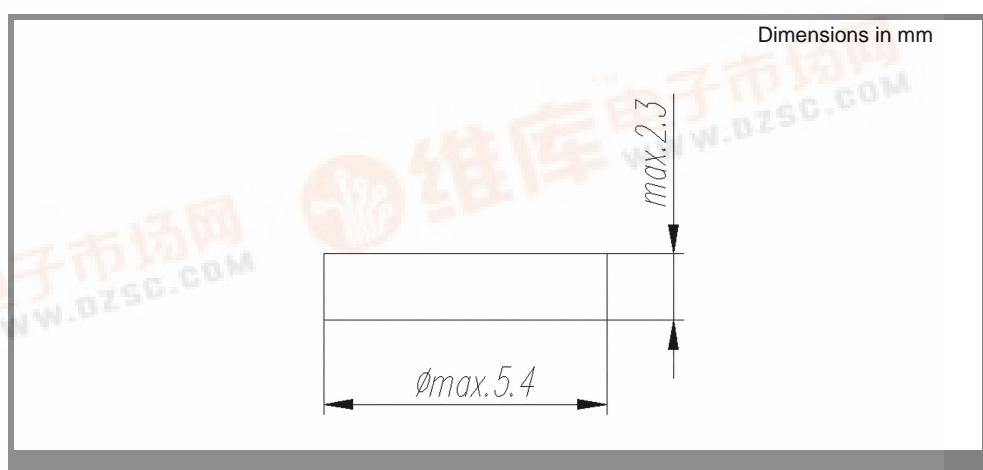
Mechanical Data

- Weight approx. 0.3g
- $I_F = 6A$, $T_j = 25^\circ C$

| Type | Repetitive peak reverse voltage V_{RRM} V | Surge peak reverse voltage V_{RSM} V | Max. reverse recovery time $I_F = A$ $I_R = A$ $I_{RR} = A$ t_{rr} ns | Max. forward voltage $V_F^2)$ |
|-------|---|--|--|----------------------------------|
| AG 6A | 50 | 80 | | 0,9 |
| AG 6B | 100 | 130 | | 0,9 |
| AG 6D | 200 | 250 | | 0,9 |
| AG 6G | 400 | 450 | | 0,9 |
| AG 6J | 600 | 700 | | 0,9 |
| AG 6K | 800 | 1000 | | 0,9 |
| AG 6M | 1000 | 1300 | | 0,9 |

| Absolute Maximum Ratings | | $T_c = 25^\circ C$ unless otherwise specified | |
|---------------------------------|---|---|------------------|
| Symbol | Conditions | Values | Units |
| I_{FAV} | Max. averaged fwd. current, R-load, $T_A = 100^\circ C$ ¹⁾ | 6 | A |
| I_{FRM} | Repetitive peak forward current $f > 15 \text{ Hz}^1)$ | 40 | A |
| I_{FSM} | Peak forward surge current 50 Hz half sinus-wave ³⁾ | 400 | A |
| i^2t | Rating for fusing, $t < 10 \text{ ms}^3)$ | 800 | A ² s |
| R_{thA} | Max. thermal resistance junction to ambient ¹⁾ | | K/W |
| R_{thT} | Max. thermal resistance junction to terminals ¹⁾ | | K/W |
| T_j | Operating junction temperature | -50 ... +150°C | °C |
| T_s | Storage temperature | -50 ... +150°C | °C |

| Characteristics | | $T_c = 25^\circ C$ unless otherwise specified | |
|------------------------|--|---|--------------|
| Symbol | Conditions | Values | Units |
| I_R | Maximum leakage current, $T_j = 25^\circ C$; $V_R = V_{RRM}$ | 10 | µA |
| | $T_j = 100^\circ C$; $V_R = V_{RRM}$ | 5 | mA |
| C_J | Typical junction capacitance (at MHz and applied reverse voltage of V) | | pF |
| Q_{rr} | Reverse recovery charge ($U_R = V$; $I_F = A$; $dI_F/dt = A/\text{ms}$) | | µC |
| E_{RSM} | Non repetitive peak reverse avalanche energy ($I_R = mA$; $T_j = ^\circ C$; inductive load switched off) | | mJ |



AG 6A ... AG 6M