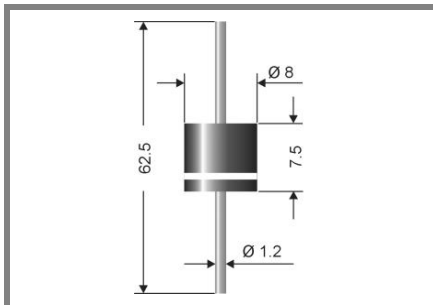


P 600 A...P 600 S



Axial lead diode

Standard silicon rectifier diodes

P 600 A...P 600 S

Forward Current: 6 A

Reverse Voltage: 50 to 1200 V

Features

- Max. solder temperature : 260°C
- Plastic material has UL classification 94V-0

Mechanical Data

- Plastic case 8 x 7.5 [mm] / P-600 Style
- Weight approx.: 1.5 g
- Terminals: plated terminals solderable per MIL-STD-750
- Mounting position: any
- Standard packaging: 500 pieces per ammo

1) Valid, if leads are kept at T_A at a distance of 10 mm from case

2) $I_F = 5A$, $T_j = 25^\circ C$

3) $T_A = 25^\circ C$

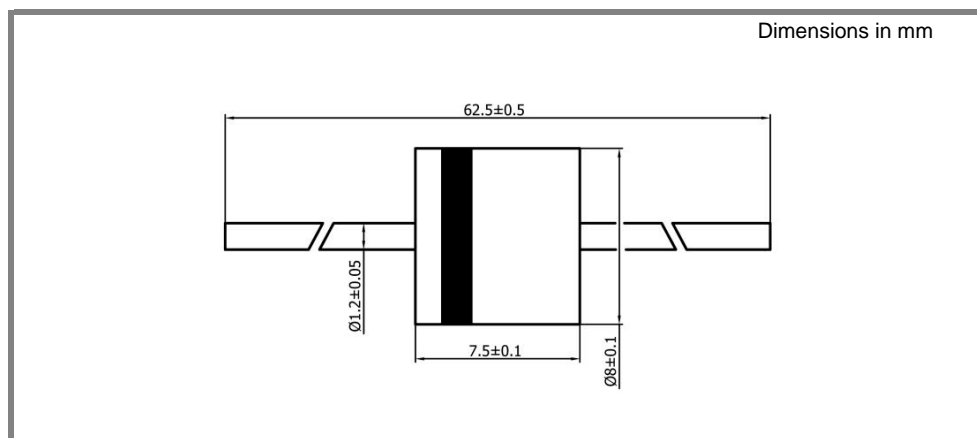
4) Thermal resistance from junction to lead/terminal at a distance 0 mm from case

5) Max. junction temperature $T_j \leq 200^\circ C$ in bypass mode / DC forward mode

| 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 $V_F^{2)}$ |
|---------|---|--|---|------------------------------------|
| P 600 A | 50 | 50 | - | 1,0 |
| P 600 B | 100 | 100 | - | 1,0 |
| P 600 D | 200 | 200 | - | 1,0 |
| P 600 G | 400 | 400 | - | 1,0 |
| P 600 J | 600 | 600 | - | 1,0 |
| P 600 K | 800 | 800 | - | 1,0 |
| P 600 M | 1000 | 1000 | - | 1,0 |
| P 600 S | 1200 | 1200 | - | 1,0 |

| Absolute Maximum Ratings | | $T_A = 25^\circ C$, unless otherwise specified | |
|--------------------------|---|---|------------------|
| Symbol | Conditions | Values | Units |
| I_{FAV} | Max. averaged fwd. current, R-load, $T_A = 50^\circ C$ 1) | 6 | A |
| I_{FRM} | Repetitive peak forward current $f > 15 Hz$ 1) | 60 | A |
| I_{FSM} | Peak forward surge current 50 Hz half sinus-wave 3) | 400 | A |
| i^2t | Rating for fusing, $t < 10 ms$ 3) | 800 | A ² s |
| R_{thA} | Max. thermal resistance junction to ambient 1) | | K/W |
| R_{thL} | Max. thermal resistance junction to terminals 4) | 5,5 | K/W |
| T_j | Operating junction temperature | -50...+175 ($T_j \leq 200^\circ C$ in bypass mode 5)) | $^\circ C$ |
| T_s | Storage temperature | -50...+175 | $^\circ C$ |

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



case: 8 x 7,5 [mm]

