

POWER DISCRETES

Description

Quick reference data

$$V_R = 800 \text{ \& } 1000V$$

$$I_F = 1.8A$$

$$t_{rr} = 300nS$$

$$I_R = 1\mu A$$

Features

- ◆ Low reverse recovery time
- ◆ Glass passivated for hermetic sealing
- ◆ Low switching losses
- ◆ Soft, non-snap off, recovery characteristic
- ◆ Avalanche capability

Absolute Maximum Ratings

Electrical specifications @ $T_A = 25^\circ C$ unless otherwise specified.

| | Symbol | PF8 | PF0 | Units |
|--|-------------|-------------|------|------------|
| Working Reverse Voltage | V_{RWM} | 800 | 1000 | V |
| Repetitive Reverse Voltage | V_{RRM} | 800 | 1000 | V |
| Surge Reverse Voltage | V_{RSM} | 900 | 1100 | V |
| Average Forward Current @ $55^\circ C$, lead length 0.375" | $I_{F(AV)}$ | 1.8 | | A |
| Non-Repetitive Surge Current ($t_p = 8.3mS$ @ V_R & T_{JMAX}) | I_{FSM} | 50 | | A |
| Storage Temperature Range | T_{STG} | -55 to +175 | | $^\circ C$ |

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Electrical Specifications

 Electrical specifications @ $T_A = 25^\circ\text{C}$ unless otherwise specified.

| | Symbol | PF8/PF0 | Units |
|---|----------------|---------|---------------|
| Average Forward Current max. (pcb mounted) | $I_{F(AV)}$ | 0.85 | A |
| Average Forward Current max. L = 10mm | $I_{F(AV)}$ | 1.8 | A |
| Forward Voltage Drop max. @ $I_F = 1.5\text{A}$, $T_J = 25^\circ\text{C}$ | V_F | 1.35 | V |
| Reverse Current max. @ V_{RWM} , $T_J = 25^\circ\text{C}$ @ V_{RWM} , $T_J = 100^\circ\text{C}$ | I_R I_R | 1 15 | μA |
| Reverse Recovery Time max. 0.5A I_F to 1.0A I_{RM} recovers to 0.25mA $I_{RM(REC)}$ | trr | 300 | nS |
| Junction Capacitance typ. @ $V_R = 5\text{V}$, $f = 1\text{MHz}$ | C_j | 18 | pF |

Thermal Characteristics

| | Symbol | PF8/PF0 | Units |
|---|-----------------|----------|--------------------|
| Thermal Resistance-Junction to Lead Lead length = 0" Lead length = 0.375" | $R_{\theta JL}$ | 19 47 | $^\circ\text{C/W}$ |

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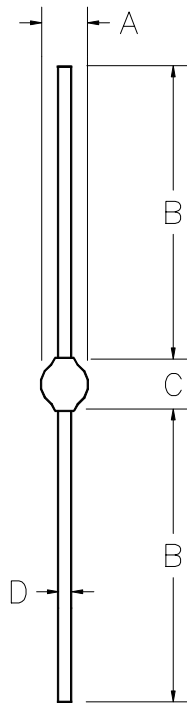
Ordering Information

| Part Number | Description |
|-------------|---|
| PF8/PF0 | Axial leaded hermetically sealed ⁽¹⁾ |

Note:

(1) Available in bulk and tape and reel packaging. Please consult factory for quantities.

Outline Drawing



| Dimensions | | | | | |
|------------------|--------|-------|-------------|------|------|
| DIM ^N | Inches | | Millimeters | | Note |
| | MIN | MAX | MIN | MAX | |
| A | - | 0.150 | - | 3.81 | - |
| B | 1.014 | - | 26 | - | - |
| C | - | 0.180 | - | 4.57 | - |
| D | - | 0.032 | - | 0.82 | - |

Weight = 369mg

Contact Information

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