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Fast Rectifiers (Glass Passivated)

Absolute Maximum Ratings* T_A = 25°C unless otherwise noted

| Symbol | Parameter | | Units | | | | | | |
|--------------------|--|-------------|-------|-----|-----|-----|-----|------|---|
| | | 10A | 10B | 10D | 10G | 10J | 10K | 10M | |
| V _{RRM} | Maximum Repetitive Reverse Voltage | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| I _{F(AV)} | Average Rectified Forward Current, .375 " lead length @ T _L = 55°C | 1.0 | | | | | | А | |
| I _{FSM} | Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave | 30 | | | | | | А | |
| T _{stg} | Storage Temperature Range | -65 to +175 | | | | | | °C | |
| TJ | Operating Junction Temperature | -65 to +175 | | | | | °C | | |

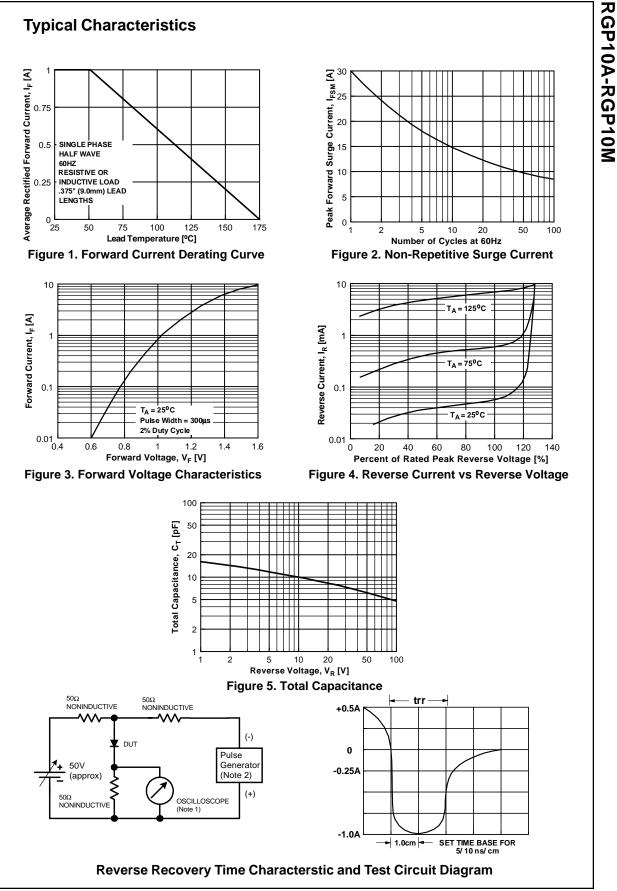
*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

Thermal Characteristics

| Symbol | Parameter | Value | Units | |
|-----------------------|---|-------|-------|--|
| P _D | Power Dissipation | 3.0 | W | |
| $R_{	extsf{	heta}JA}$ | Thermal Resistance, Junction to Ambient | 50 | °C/W | |

Electrical Characteristics T_A = 25°C unless otherwise noted

| Symbol | Parameter | | Units | | | | | |
|-----------------|---|-------------|-------|-----|-----|-----|-----|----------|
| | | 10A | 10B | 10D | 10G | 10J | 10K | 10M |
| V _F | Forward Voltage @ 1.0 A | 1.3 | | | | | V | |
| t _{rr} | Reverse Recovery Time $I_F = 0.5 A, I_R = 1.0 A, I_{rr} = 0.25 A$ | 150 250 500 | | | | 00 | ns | |
| I _R | Reverse Current @ rated $V_R T_A = 25^{\circ}C$ $T_A = 150^{\circ}C$ | 5.0 200 | | | | | | μΑ μΑ |
| C _T | Total Capacitance $V_R = 4.0 \text{ V}, \text{ f} = 1.0 \text{ MHz}$ | 15 | | | | | pF | |



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RPG10A - RPG10M, Rev. C

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|---------------------------|---|
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