RGP08A......RGP08MT

1 Amp. Glass Passivated Fast Recovery Rectifier

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| :---: | :---: |
| Mounting instructions | - Glass passivated junction |
| l. Min. distance from body to soldering point, 4 mm . | - High current capability |
| 2. Max. solder temperature, $350^{\circ} \mathrm{C}$. <br> 3. Max. soldering time, 3.5 sec . | - The plastic material carries U/L recognition 94 V-0 |
| 4. Do not bend lead at a point closer than | - Terminals: Axial Leads |
| 2 mm . to the body. | - Polarity: Color band denotes cathode |

## Maximum Ratings, according to IEC publication No. 134

|  |  | $\begin{array}{\|c} \hline \text { RGP } \\ 08 \mathrm{~A} \end{array}$ | $\begin{array}{\|c\|} \hline \text { RGP } \\ \text { 08B } \end{array}$ | $\begin{array}{\|c} \hline \text { RGP } \\ \text { 08D } \end{array}$ | $\begin{gathered} \hline \text { RGP } \\ \mathbf{0 8 G} \end{gathered}$ | $\begin{array}{\|c} \hline \text { RGP } \\ \text { 08J } \end{array}$ | $\begin{array}{\|c\|} \hline \text { RGP } \\ \hline \mathbf{0 8 K} \end{array}$ | $\begin{array}{\|c} \hline \text { RGP } \\ \text { 08M } \end{array}$ | $\begin{aligned} & \text { RGP } \\ & \text { 08MII } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Marking Code | K1 | K2 | K3 | K4 | K5 | K6 | K7 | K8 |
| $\mathrm{V}_{\text {RrM }}$ | Peak recurrent reverse voltage (V) | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | 1000 |
| $\mathrm{I}_{\text {FAV }}$ | Forward current at Tamb $=25^{\circ} \mathrm{C}$ | 1 A |  |  |  |  |  |  |  |
| $\mathrm{I}_{\text {RRM }}$ | Recurrent peak forward current | 10 A |  |  |  |  |  |  |  |
| $\mathrm{I}_{\text {FSM }}$ | 8.3 ms . peak forward surge current Jedec Method) | 30 A |  |  |  |  |  |  |  |
| $\mathrm{t}_{\mathrm{rr}}$ |   <br> Max. reverse recovery $I_{F}=0.5 \mathrm{~A}$ <br> time from $I_{R}=1 \mathrm{~A}$ <br> $I_{R R}=0.25 \mathrm{~A}$  |  |  | 0 ns |  | 250 ns |  | ns | 300 ns |
| $\mathrm{T}_{\mathrm{j}}$ | Operating temperature range | -65 to $+150^{\circ} \mathrm{C}$ |  |  |  |  |  |  |  |
| $\mathrm{T}_{\text {stg }}$ | Storage temperature range | -65 to $+150^{\circ} \mathrm{C}$ |  |  |  |  |  |  |  |
| $\mathrm{E}_{\text {RSM }}$ | Maximum non repetitive peak reverse avalanche energy. $\mathrm{IR}_{\mathrm{R}}=0.5 \mathrm{~A} ; \mathrm{T}_{\mathrm{J}}=25^{\circ} \mathrm{C}$ | 15 mJ |  |  |  |  |  |  |  |

Electrical Characteristics at Tamb $=25^{\circ} \mathrm{C}$

| $\mathrm{V}_{\mathrm{F}}$ | Max. forward voltage drop at $\mathrm{I}_{\mathrm{F}}=1.0 \mathrm{~A}$ | 1.3 V |
| :---: | :---: | :---: |
| $\mathrm{I}_{\mathrm{R}}$ | $\begin{array}{ll}\text { Max. reverse current at } V_{\text {RRM }} & \text { at } 25^{\circ} \mathrm{C} \\ \text { at } 150^{\circ} \mathrm{C}\end{array}$ | $\begin{array}{r} 5 \mu \mathrm{~A} \\ 200 \mu \mathrm{~A} \end{array}$ |
| $\begin{aligned} & \mathrm{R}_{\mathrm{thj}-\mathrm{a}} \\ & \mathrm{R}_{\mathrm{thj}-\mathrm{a}} \end{aligned}$ | MAXIMUM THERMAL RESISTANCE Junction-Ambient. With Heatsink Junction-Ambient. In P.C.B. | $\begin{gathered} 45^{\circ} \mathrm{C} / \mathrm{W} \\ 100^{\circ} \mathrm{C} / \mathrm{W} \end{gathered}$ |

## Rating And Characteristic Curves



