

Outline Drawing

| Dimension | Inches | Millimeters |
| :---: | :---: | :---: |
| A | 2.087 | 53 |
| B | $1.705 \pm 0.008$ | $43.3 \pm 0.2$ |
| C | 1.417 | 36 |
| D | 1.299 | 33 |
| E | 0.866 | 22 |
| F | 0.551 | 14 |
| G | 0.354 | 9 |
| $H$ | 0.315 | 8 |
| J | 0.276 | 7 |
| K | 0.217 | 5.5 |
| L | 0.217 Dia. | Dia. 5.5 |
| M | 0.138 | 3.5 |
| N | 0.118 | 3 |
| $P$ | M4 Metric | M4 |



CS240610, CS241210
Fast Recovery Single Diode Modules 100 Amperes/600-1200 Volts

Powerex, Inc., 200 Hillis Street, Youngwood, PennsyIvania 15697-1800 (724) 925-7272

CS240610, CS241210

## Fast Recovery Single Diode Modules

100 Amperes/600-1200 Volts

## Absolute Maximum Ratings

| Characteristics | Symbol | CS240610 | CS241210 | Units |
| :---: | :---: | :---: | :---: | :---: |
| Peak Reverse Blocking Voltage | $\mathrm{V}_{\text {RRM }}$ | 600 | 1200 | Volts |
| Transient Peak Reverse Blocking Voltage (Non-Repetitive), t < 5ms | $\mathrm{V}_{\text {RSM }}$ | 720 | 1350 | Volts |
| DC Reverse Blocking Voltage | $\mathrm{V}_{\mathrm{R}(\mathrm{DC})}$ | 480 | 960 | Volts |
| DC Current, $\mathrm{T}_{\mathrm{C}}=75^{\circ} \mathrm{C}$ | ${ }^{\mathrm{I}} \mathrm{F}$ (DC) | 100 | 100 | Amperes |
| Peak One-Cycle Surge (Non-Repetitive) On-State Current (60Hz) | ${ }^{\text {I FSM }}$ | 2000 | 2000 | Amperes |
| Peak One-Cycle Surge (Non-Repetitive) On-State Current (50Hz) | ${ }^{\text {I FSM }}$ | 1825 | 1825 | Amperes |
| 12t (for Fusing), 8.3 milliseconds | 12 t | 16700 | 16700 | $\mathrm{A}^{2} \mathrm{sec}$ |
| Storage Temperature | TSTG | -40 to 125 | -40 to 125 | ${ }^{\circ} \mathrm{C}$ |
| Operating Temperature | $\mathrm{T}_{\mathrm{j}}$ | -40 to 150 | -40 to 150 | ${ }^{\circ} \mathrm{C}$ |
| Maximum Mounting Torque M5 Mounting Screw | - | 17 | 17 | in.-lb. |
| Maximum Mounting Torque M4 Terminal Screw | - | 12 | 12 | in.-lb. |
| Module Weight (Typical) | - | 90 | 90 | Grams |
| V Isolation | $\mathrm{V}_{\text {RMS }}$ | 2500 | 2500 | Volts |

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CS240610, CS241210
Fast Recovery Single Diode Modules
100 Amperes/600-1200 Volts

Electrical and Thermal Characteristics, $\mathrm{T}_{\mathrm{j}}=25^{\circ} \mathrm{C}$ unless otherwise specified

| Characteristics | Symbol | Test Conditions | CS240610/CS241210 | Units |
| :---: | :---: | :---: | :---: | :---: |
| Blocking State Maximums Reverse Leakage Current, Peak | IRRM | $\mathrm{T}_{\mathrm{j}}=150^{\circ} \mathrm{C}, \mathrm{V}_{\text {RRM }}=$ Rated | 20 | mA |
| Conducting State Maximums Peak On-State Voltage | $\mathrm{V}_{\mathrm{FM}}$ | ${ }^{\prime} \mathrm{FM}=100 \mathrm{~A}$ | 1.5 | Volts |
| Switching Minimums Reverse Recovery Time | $\mathrm{t}_{\mathrm{rr}}$ | $\begin{gathered} \mathrm{I}_{\mathrm{FM}}=100 \mathrm{~A}, \mathrm{~T}_{\mathrm{j}}=150^{\circ} \mathrm{C} \\ \mathrm{di} / \mathrm{dt}=-200 \mathrm{~A} / \mu \mathrm{s}, \mathrm{~V}_{\mathrm{R}}=1 / 2 \mathrm{~V}_{\mathrm{RRM}} \end{gathered}$ | 0.8 | $\mu \mathrm{S}$ |
| Reverse Recovery Charge | $\mathrm{Q}_{\mathrm{rr}}$ | $\begin{aligned} \mathrm{I}_{\mathrm{FM}}=100 \mathrm{~A}, \mathrm{~T}_{\mathrm{j}} & =150^{\circ} \mathrm{C} \\ \mathrm{di} / \mathrm{dt}=-200 \mathrm{~A} / \mu \mathrm{s}, \mathrm{~V}_{\mathrm{R}} & =1 / 2 \mathrm{~V}_{\mathrm{RRM}} \end{aligned}$ | 60 | $\mu \mathrm{C}$ |
| Thermal Maximums <br> Thermal Resistance, Junction-to-Case | $\mathrm{R}_{\theta(\mathrm{J}-\mathrm{C})}$ | Per Module | 0.5 | ${ }^{\circ} \mathrm{C} /$ Watt |
| Thermal Resistance, Case-to-Sink (Lubricated) | $\mathrm{R}_{\theta(\mathrm{C}-\mathrm{S})}$ | Per Module | 0.15 | ${ }^{\circ} \mathrm{C} /$ Watt |

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CS240610, CS241210
Dual SCR POW-R-BLOK ${ }^{\text {TM }}$ Modules
100 Amperes/600-1200 Volts


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