***ADVANCED TECHNICAL INFORMATION***

## HIGHLIGHTS

- Reliability.
- Short delivery time.
- Ready to use.
- Working voltage up to 250 $V_{RMS}$.
- Insulation 2500 $V_{RMS}$/1 min.
- Black anodized aluminium heatsink for natural cooling.
- Aluminium «L» shaped mounting fixtures.
- Nickel plated Cu power terminals.

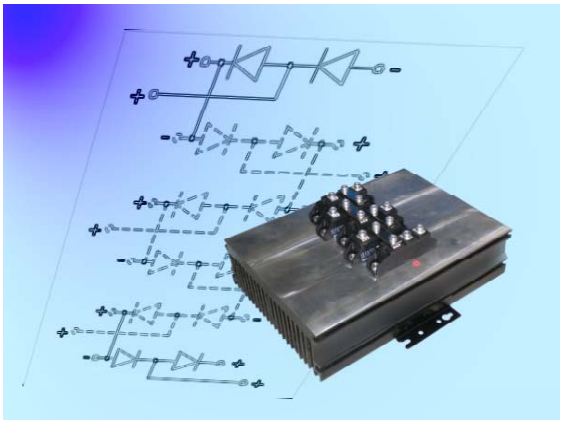


Photo non-contractual

| GENERAL SPECIFICATIONS | |
|---|---|
| Maximum DC voltage | 900 $V_{DC}$ |
| Repetitive peak reverse voltage ($V_{RRM}$) | 1200 $V_P$ (min) |

| COOLING ESPECIFICATIONS | |
|---|---|
| Natural cooling | "N" identifier |
| Forced cooling | "F" identifier. 120x120mm. 230V fan |

| SEMICONDUCTOR SPECIFICATIONS | |
|---|---|
| Peak non-repetitive surge current ($I_{TSM}$) | 2800 A @ $T_P$=10ms, Tj=45ºC, (50Hz), sine |
| | 2500 A @ $T_P$=10ms, Tj=150ºC, (50Hz), sine |
| $I^2t$ capacity for fusing | 39200 $A^2s$ @ $T_P$=10ms, Tj=45ºC, (50Hz), sine |
| | 31200 $A^2s$ @ $T_P$=10ms, Tj=150ºC, (50Hz), sine |
| Maximum $I_{DC}$ | 180 A. |
| Maximum peak on-state voltage ($V_{TM}$) | 1,43 V @ $I_{TM}$=300A |

| TERMINAL SPECIFICATIONS | |
|---|---|
| Power terminals | M5 2,5 to 4 Nm |

| ENVIRONMENT SPECIFICATIONS | |
|---|---|
| Protection grade (EN-60529 / CEI529 / UNE-20324) | IP-00 |
| Humidity max. | 50% RH @ 35ºC / 90% RH @ 20ºC |
| Pollution degree | III |
| Isolation | 3000 $V_{RMS}$ / 1 min |

| MECHANICAL SPECIFICATIONS | |
|---|---|
| Mounting position | NATURAL: Fins in vertical position |
| | FORCED: All position |
| Storage temperature | -25 to 80ºC |

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## STANDARD CONFIGURATIONS

4, 6, 8, 10, 12 or 14 diodes in series conection.

| Heatsink | Maximum nominal current @ $T_A$=25ºC and $T_{HS}$=90ºC | | | | | | Dim "A" |
|---|---|---|---|---|---|---|---|
| | 4DCT | 6DCT | 8DCT | 10DCT | 12DCT | 14DCT | |
| RG14071/100N | 21 | 14 | 11 | 9 | 8 | 6 | 100 |
| RG14071/200N | 34 | 23 | 18 | 14 | 13 | 10 | 200 |
| RG14071/300N | 41 | 29 | 22 | 18 | 16 | 13 | 300 |
| RG14229/150N | 43 | 30 | 23 | 19 | 16 | 14 | 150 |
| RG14229/200N | 48 | 33 | 25 | 21 | 18 | 15 | 200 |
| RG14229/300N | 65 | 46 | 35 | 29 | 25 | 21 | 300 |

| Heatsink | Maximum nominal current @ $T_A$=40ºC and $T_{HS}$=90ºC | | | | | | Dim "A" |
|---|---|---|---|---|---|---|---|
| | 4DCT | 6DCT | 8DCT | 10DCT | 12DCT | 14DCT | |
| RG14071/100N | **16** | **11** | **8** | **7** | **6** | **5** | 100 |
| RG14071/200N | **27** | **18** | **14** | **11** | **10** | **8** | 200 |
| RG14071/300N | **33** | **22** | **17** | **14** | **12** | **10** | 300 |
| RG14229/150N | **34** | **24** | **18** | **15** | **13** | **11** | 150 |
| RG14229/200N | **38** | **26** | **20** | **16** | **14** | **12** | 200 |
| RG14229/300N | **52** | **36** | **28** | **23** | **20** | **16** | 300 |

| Heatsink | Maximum nominal current @ $T_A$=50ºC and $T_{HS}$=90ºC | | | | | | Dim "A" |
|---|---|---|---|---|---|---|---|
| | 4DCT | 6DCT | 8DCT | 10DCT | 12DCT | 14DCT | |
| RG14071/100N | 13 | 9 | 7 | 5 | 5 | 4 | 100 |
| RG14071/200N | 22 | 15 | 11 | 9 | 8 | 6 | 200 |
| RG14071/300N | 27 | 18 | 14 | 11 | 10 | 8 | 300 |
| RG14229/150N | 28 | 19 | 15 | 12 | 10 | 8 | 150 |
| RG14229/200N | 31 | 21 | 16 | 13 | 11 | 9 | 200 |
| RG14229/300N | 43 | 29 | 23 | 18 | 16 | 13 | 300 |

| Heatsink | Aprox. Weight (Kgrs) | | | | | | Dim "A" |
|---|---|---|---|---|---|---|---|
| | 4DCT | 6DCT | 8DCT | 10DCT | 12DCT | 14DCT | |
| RG14071/100N | 1,32 | 1,43 | 1,56 | 1,66 | 1,77 | 1,88 | 100 |
| RG14071/200N | 2,39 | 2,50 | 2,62 | 2,73 | 2,84 | 2,95 | 200 |
| RG14071/300N | 3,46 | 3,57 | 3,67 | 3,80 | 3,90 | 4,02 | 300 |
| RG14229/150N | 2,86 | 2,96 | 3,08 | 3,19 | 3,30 | 3,41 | 150 |
| RG14229/200N | 3,72 | 3,83 | 3,94 | 4,05 | 4,16 | 4,28 | 200 |
| RG14229/300N | 5,45 | 5,56 | 5,66 | 5,79 | 5,90 | 6,01 | 300 |

## ORDER CODES

| MR- | 4 | DCT | 033 | N | 12 |
|---|---|---|---|---|---|
| (1) | (2) | (3) | (4) | (5) | (6) |

1- General code series
2- Number of series diodes
3- Drop voltage network identifier
4- Nominal maximum current at $T_A$=40ºC (green table)
5- Cooling system (N:Natural; F:Forced)
6- Semiconductor reverse voltage ($V_{RRM}$/100)

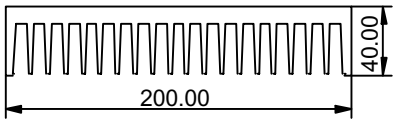
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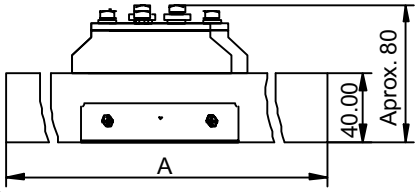
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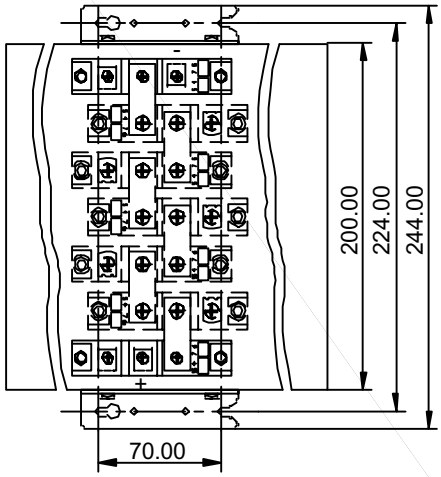
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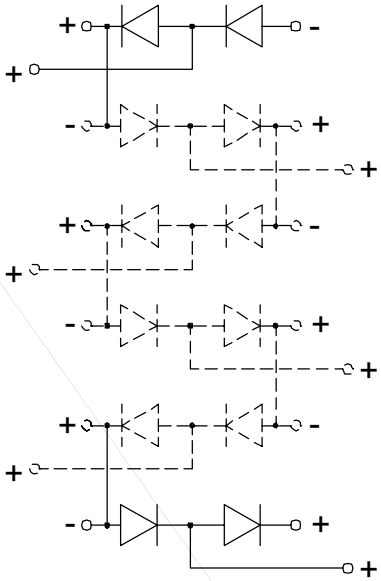
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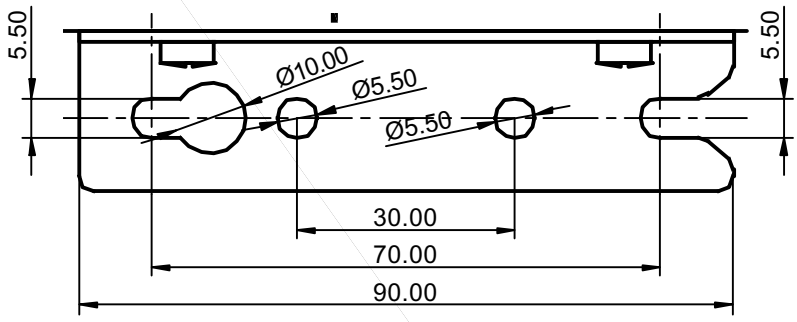
## GENERAL DIMENSIONS WITH RG14071





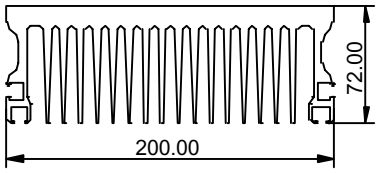

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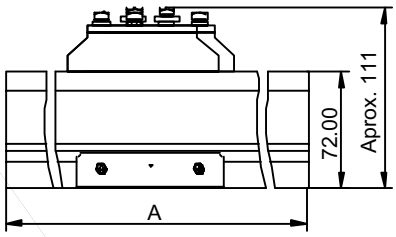
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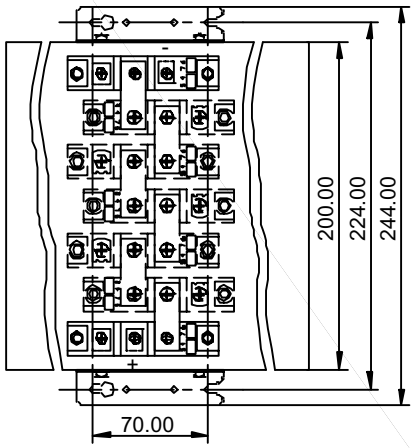
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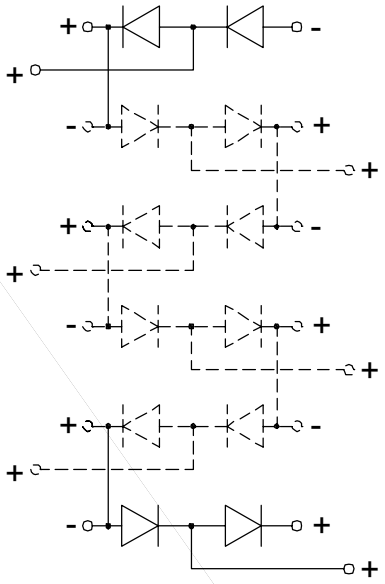
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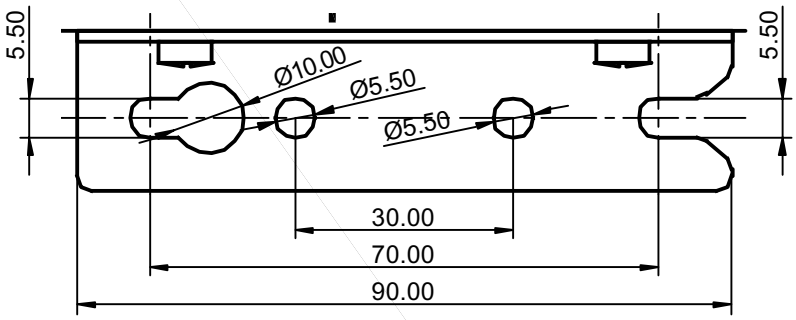
## GENERAL DIMENSIONS WITH RG14229






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## MAXIMUM CURRENT & HEATSINK TEMPERATURE AT Tj=$Tj_{MAX}$.

| Heatsink | Maximum current @ $T_J$=150ºC | | | | | | $T_A$ |
|---|---|---|---|---|---|---|---|
| | 4DCT | 6DCT | 8DCT | 10DCT | 12DCT | 14DCT | |
| RG14071/100N | 42 | 30 | 24 | 19 | 16 | 14 | **25ºC** |
| RG14071/200N | 62 | 46 | 37 | 31 | 26 | 23 | |
| RG14071/300N | 72 | 54 | 44 | 37 | 31 | 28 | |
| RG14229/150N | 75 | 57 | 46 | 38 | 33 | 29 | |
| RG14229/200N | 80 | 61 | 50 | 42 | 36 | 32 | |
| RG14229/300N | 99 | 78 | 64 | 55 | 48 | 42 | |
| RG14071/100N | 38 | 27 | 21 | 17 | 15 | 13 | **40ºC** |
| RG14071/200N | 56 | 41 | 33 | 27 | 23 | 20 | |
| RG14071/300N | 65 | 49 | 39 | 33 | 28 | 24 | |
| RG14229/150N | 67 | 51 | 41 | 34 | 29 | 26 | |
| RG14229/200N | 72 | 55 | 44 | 37 | 32 | 28 | |
| RG14229/300N | 89 | 70 | 57 | 49 | 43 | 38 | |
| RG14071/100N | 35 | 25 | 19 | 16 | 13 | 12 | **50ºC** |
| RG14071/200N | 51 | 38 | 30 | 25 | 21 | 18 | |
| RG14071/300N | 60 | 45 | 36 | 30 | 26 | 22 | |
| RG14229/150N | 62 | 46 | 37 | 31 | 27 | 23 | |
| RG14229/200N | 66 | 50 | 40 | 34 | 29 | 26 | |
| RG14229/300N | 82 | 64 | 53 | 45 | 39 | 35 | |
| | Heatsink temperature @ $T_J$=150ºC | | | | | | |
| RG14071/100N | 134 | 139 | 141 | 143 | 144 | 145 | **25ºC** |
| RG14071/200N | 125 | 132 | 136 | 139 | 140 | 142 | |
| RG14071/300N | 120 | 129 | 133 | 136 | 138 | 140 | |
| RG14229/150N | 119 | 128 | 132 | 135 | 138 | 139 | |
| RG14229/200N | 117 | 126 | 131 | 134 | 136 | 138 | |
| RG14229/300N | 107 | 118 | 124 | 128 | 131 | 134 | |
| RG14071/100N | 136 | 140 | 142 | 144 | 145 | 145 | **40ºC** |
| RG14071/200N | 128 | 134 | 138 | 140 | 142 | 143 | |
| RG14071/300N | 124 | 131 | 135 | 138 | 140 | 141 | |
| RG14229/150N | 123 | 130 | 134 | 137 | 139 | 141 | |
| RG14229/200N | 121 | 128 | 133 | 136 | 138 | 140 | |
| RG14229/300N | 112 | 122 | 127 | 131 | 134 | 136 | |
| RG14071/100N | 137 | 141 | 143 | 144 | 145 | 146 | **50ºC** |
| RG14071/200N | 130 | 136 | 139 | 141 | 142 | 143 | |
| RG14071/300N | 126 | 133 | 137 | 139 | 141 | 142 | |
| RG14229/150N | 125 | 132 | 136 | 138 | 140 | 141 | |
| RG14229/200N | 123 | 130 | 135 | 137 | 139 | 141 | |
| RG14229/300N | 116 | 124 | 129 | 133 | 135 | 137 | |

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## SERIES RG07089 CONFIGURATIONS (NATURAL AN FORCED COOLING)

4, 6, 8, 10, 12 or 14 diodes in series conection.

| Heatsink | Maximum nominal current @ $T_A$=25ºC and $T_{HS}$=90ºC | | | | | | Dim "A" |
|---|---|---|---|---|---|---|---|
| | 4SDCT | 6SDCT | 8SDCT | 10SDCT | 12SDCT | 14SDCT | |
| RG07089/120N | 31 | 22 | | | | | 120 |
| RG07089/180N | 38 | 26 | 20 | 16 | | | 180 |
| RG07089/300N | 43 | 30 | 23 | 19 | 16 | 14 | 300 |
| RG07089/120F | 81 | 57 | | | | | 120 |
| RG07089/180F | 95 | 68 | 53 | 43 | | | 180 |
| RG07089/300F | 107 | 77 | 60 | 50 | 44 | 37 | 300 |

| Heatsink | Maximum nominal current @ $T_A$=40ºC and $T_{HS}$=90ºC | | | | | | Dim "A" |
|---|---|---|---|---|---|---|---|
| | 4SDCT | 6SDCT | 8SDCT | 10SDCT | 12SDCT | 14SDCT | |
| RG07089/120N | **25** | **17** | | | | | 120 |
| RG07089/180N | **30** | **20** | **15** | **13** | | | 180 |
| RG07089/300N | **34** | **24** | **18** | **15** | **13** | **11** | 300 |
| RG07089/120F | **65** | **46** | | | | | 120 |
| RG07089/180F | **76** | **54** | **42** | **34** | | | 180 |
| RG07089/300F | **87** | **62** | **48** | **39** | **35** | **29** | 300 |

| Heatsink | Maximum nominal current @ $T_A$=50ºC and $T_{HS}$=90ºC | | | | | | Dim "A" |
|---|---|---|---|---|---|---|---|
| | 4SDCT | 6SDCT | 8SDCT | 10SDCT | 12SDCT | 14SDCT | |
| RG07089/120N | 20 | 14 | | | | | 120 |
| RG07089/180N | 24 | 16 | 13 | 10 | | | 180 |
| RG07089/300N | 28 | 19 | 15 | 12 | 10 | 8 | 300 |
| RG07089/120F | 53 | 37 | | | | | 120 |
| RG07089/180F | 63 | 44 | 34 | 28 | | | 180 |
| RG07089/300F | 72 | 51 | 39 | 32 | 28 | 24 | 300 |

| Heatsink | Aprox. Weight (Kgrs) | | | | | | Dim "A" |
|---|---|---|---|---|---|---|---|
| | 4SDCT | 6SDCT | 8SDCT | 10SDCT | 12SDCT | 14SDCT | |
| RG07089/120N | 2,02 | 2,15 | | | | | 120 |
| RG07089/180N | 2,90 | 3,03 | 3,16 | 3,29 | | | 180 |
| RG07089/300N | 4,66 | 4,79 | 4,92 | 5,05 | 5,17 | 5,30 | 300 |
| RG07089/120F | 2,61 | 2,74 | | | | | 120 |
| RG07089/180F | 3,49 | 3,62 | 3,74 | 3,87 | | | 180 |
| RG07089/300F | 5,25 | 5,37 | 5,50 | 5,63 | 5,76 | 5,89 | 300 |

## ORDER CODES

| MR- | 4 | SDCT | 081 | N | 12 |
|---|---|---|---|---|---|
| (1) | (2) | (3) | (4) | (5) | (6) |

1- General code series
2- Number of series diodes
3- Drop voltage network identifier with RG07089 heatsink series
4- Nominal maximum current at $T_A$=40ºC (green table)
5- Cooling system (N:Natural; F:Forced)
6- Semiconductor reverse voltage ($V_{RRM}$/100)

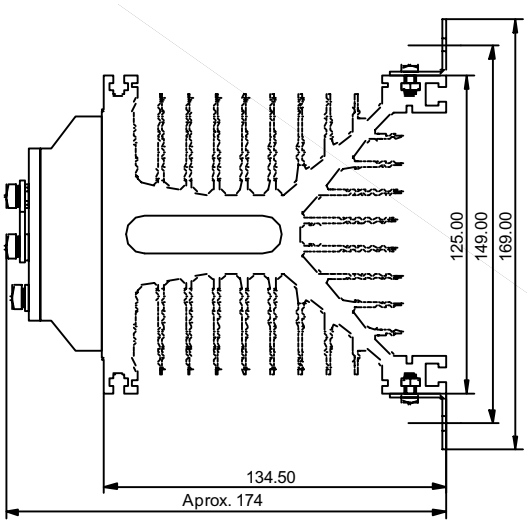
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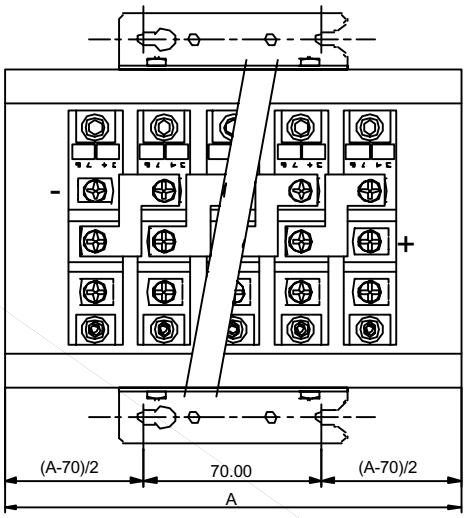
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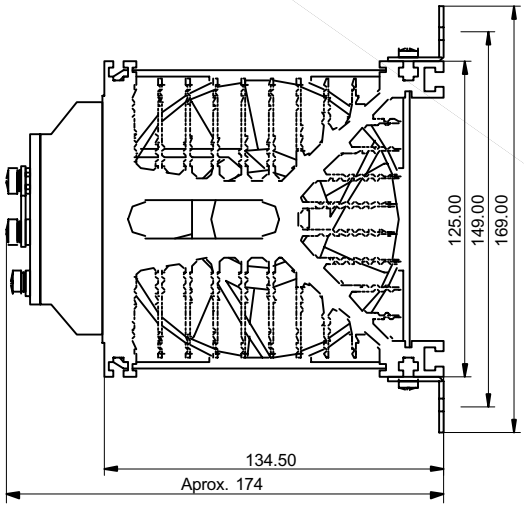
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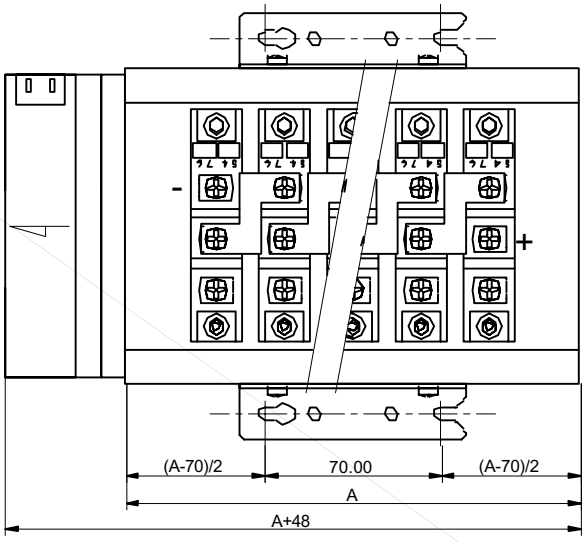
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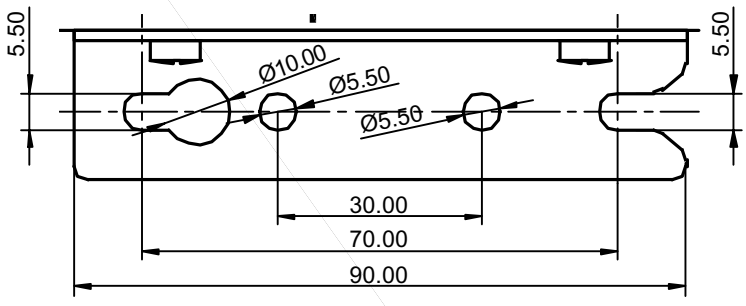
## GENERAL DIMENSIONS

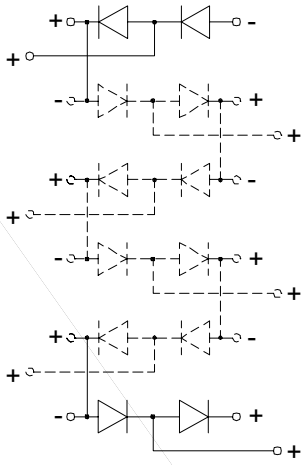


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## MAXIMUM CURRENT & HEATSINK TEMPERATURE AT Tj=$Tj_{MAX}$.

| Heatsink | Maximum current @ $T_J$=150ºC | | | | | | $T_A$ |
|---|---|---|---|---|---|---|---|
| | 4SDCT | 6SDCT | 8SDCT | 10SDCT | 12SDCT | 14SDCT | |
| RG07089/120N | 59 | 43 | | | | | 25ºC |
| RG07089/180N | 68 | 50 | 40 | 34 | | | |
| RG07089/300N | 75 | 57 | 46 | 38 | 33 | 29 | |
| RG07089/120F | 113 | 91 | | | | | |
| RG07089/180F | 124 | 101 | 86 | 75 | | | |
| RG07089/300F | 132 | 110 | 94 | 83 | 74 | 66 | |
| RG07089/120N | 52 | 39 | | | | | 40ºC |
| RG07089/180N | 60 | 45 | 36 | 30 | | | |
| RG07089/300N | 67 | 51 | 41 | 34 | 29 | 26 | |
| RG07089/120F | 102 | 82 | | | | | |
| RG07089/180F | 111 | 91 | 77 | 67 | | | |
| RG07089/300F | 119 | 99 | 85 | 74 | 66 | 59 | |
| RG07089/120N | 48 | 35 | | | | | 50ºC |
| RG07089/180N | 55 | 41 | 33 | 27 | | | |
| RG07089/300N | 62 | 46 | 37 | 31 | 27 | 23 | |
| RG07089/120F | 94 | 75 | | | | | |
| RG07089/180F | 103 | 84 | 71 | 62 | | | |
| RG07089/300F | 110 | 91 | 78 | 68 | 61 | 55 | |
| | Heatsink temperature @ $T_J$=150ºC | | | | | | |
| RG07089/120N | 127 | 133 | | | | | 25ºC |
| RG07089/180N | 123 | 130 | 135 | 137 | | | |
| RG07089/300N | 119 | 128 | 132 | 135 | 138 | 139 | |
| RG07089/120F | 100 | 111 | | | | | |
| RG07089/180F | 94 | 106 | 114 | 119 | | | |
| RG07089/300F | 89 | 101 | 110 | 115 | 120 | 123 | |
| RG07089/120N | 129 | 135 | | | | | 40ºC |
| RG07089/180N | 126 | 133 | 136 | 139 | | | |
| RG07089/300N | 123 | 130 | 134 | 137 | 139 | 141 | |
| RG07089/120F | 106 | 116 | | | | | |
| RG07089/180F | 100 | 111 | 118 | 123 | | | |
| RG07089/300F | 96 | 107 | 114 | 120 | 123 | 126 | |
| RG07089/120N | 131 | 137 | | | | | 50ºC |
| RG07089/180N | 128 | 134 | 138 | 140 | | | |
| RG07089/300N | 125 | 132 | 136 | 138 | 140 | 141 | |
| RG07089/120F | 110 | 119 | | | | | |
| RG07089/180F | 105 | 115 | 121 | 125 | | | |
| RG07089/300F | 101 | 111 | 118 | 122 | 126 | 129 | |

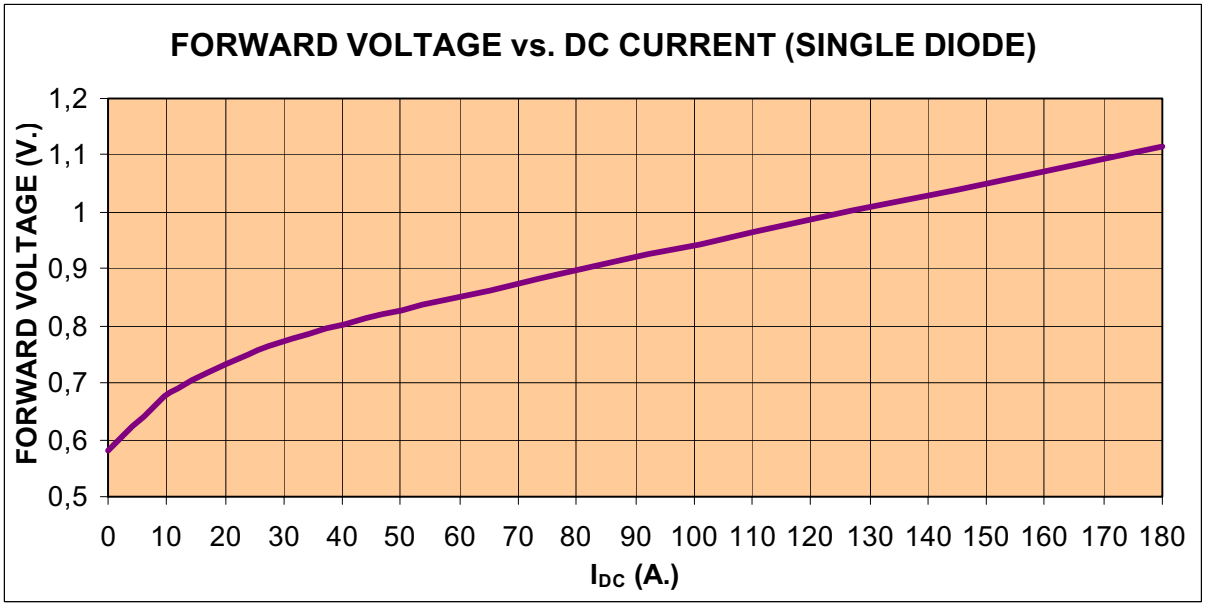


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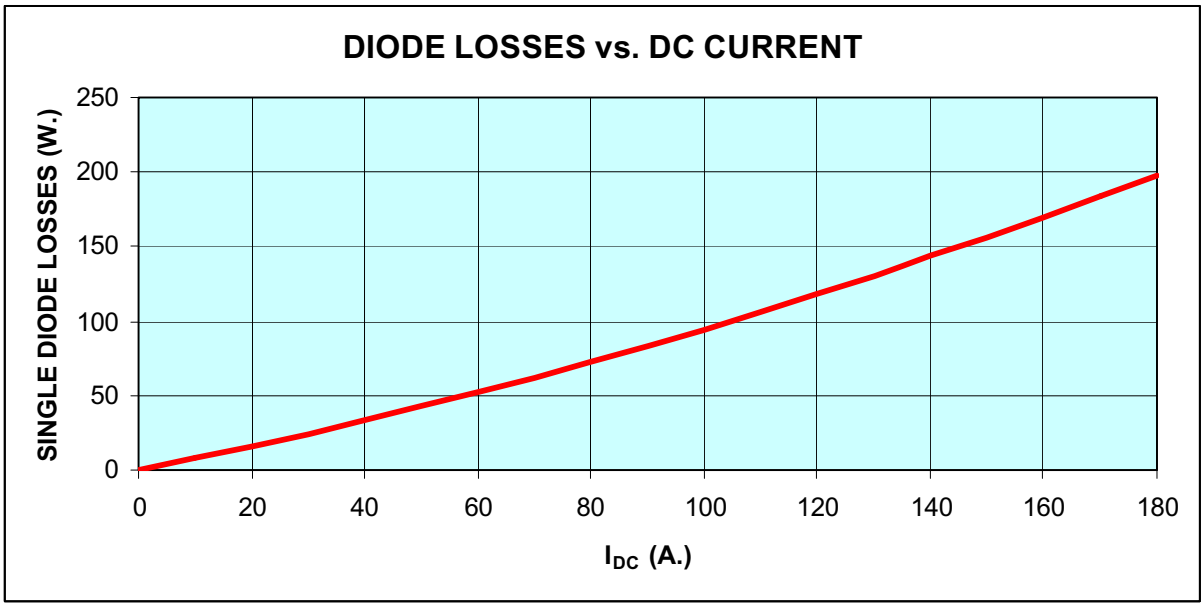
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## TYPICAL FORWARD VOLTAGE vs. CURRENT (ONE DIODE)




## TYPICAL LOSSES vs. CURRENT (SINGLE DIODE)




## MOUNTING CONSIDERATIONS

It's necessary a minimum distance of 100 mm with regard to the envelope. The free air circulation should be guaranteed. Avoiding the heat sources of nearby to assembly.

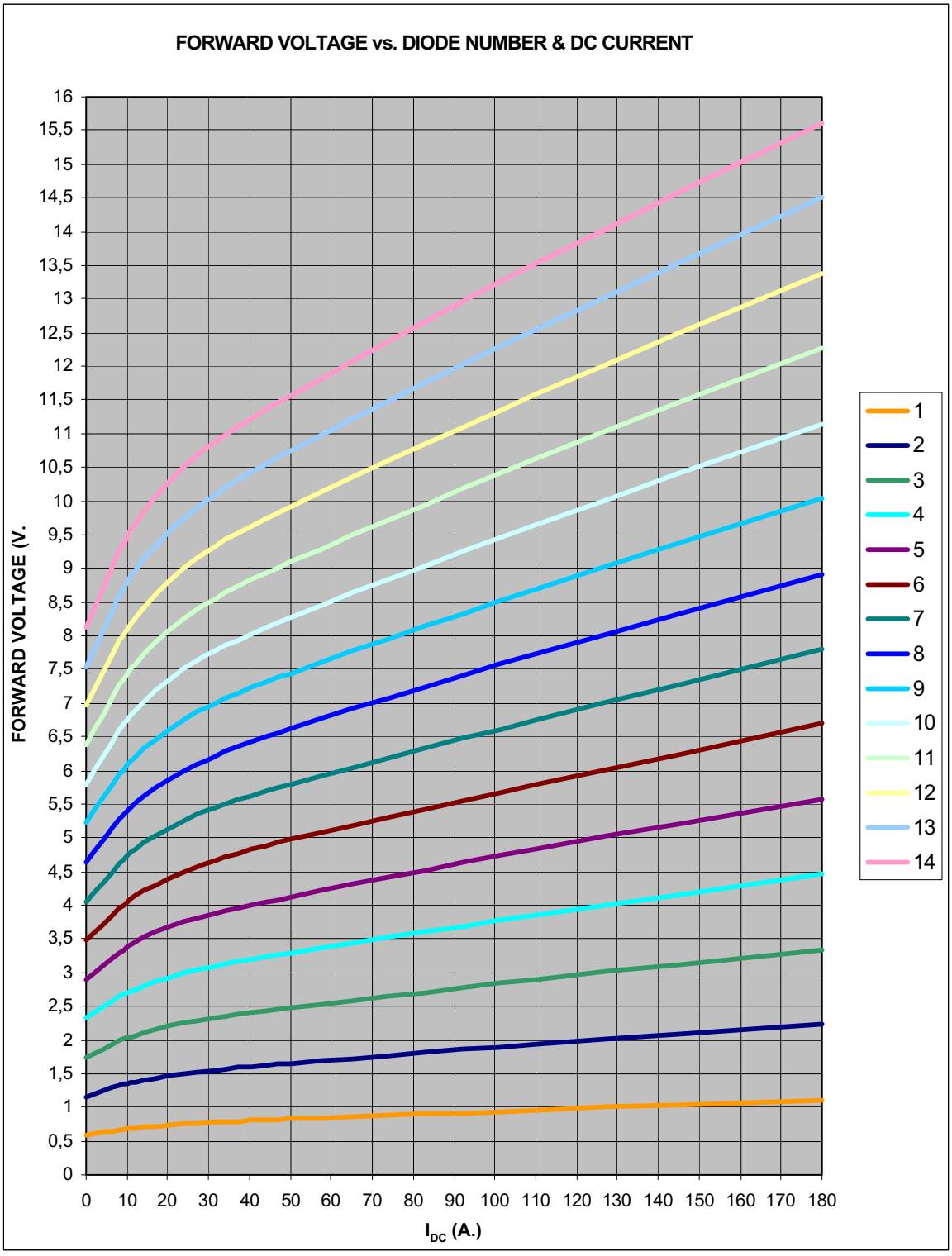


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## TYPICAL FORWARD VOLTAGE vs. NUMBER OF SERIES DIODES &CURRENT




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Sans annotation: La notice technique indique que le produit est selon la même

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