






SCRs (Silicon Controlled Rectifiers)
 Metal/Plastic Packages
 0.8 to 110 Amperes RMS
 15 to 1200 Volts

| I_T (AMPS) | 0.8 | | | | | |
|-------------------|--|------------|------------|-------------|---|---|
| @ T_C (°C) | 55 | 55 | 55 | 55 | 60 | |
| I_{TSM} (AMPS) | 6.0 | 6.0 | 6.0 | 6.0 | 10 | |
| CASE |  TO-18 | | | |  TO-92 Pinout C G A |  TO-92 Pinout A G C |
| V_{RRM} (VOLTS) | | | | | | |
| 15 | 2N876 | 2N884 | | | | |
| 30 | 2N877 | 2N885 | 2N3001 | 2N3005 | 2N5060 | BRX44* |
| 60 | 2N878 | 2N886 | 2N3002 | 2N3006 | 2N5061 | BRX45* |
| 100 | 2N879 | 2N887 | 2N3003 | 2N3007 | 2N5062 | BRX46* |
| 150 | 2N880 | 2N888 | | | 2N5063 | |
| 200 | 2N881 | 2N889 | 2N3004 | 2N3008 | 2N5064 | BRX47* |
| 300 | 2N882 | 2N890 | | | 2N6564 | BRX48* |
| 400 | 2N883 | 2N891 | | | 2N6565 | BRX49* |
| I_{GT} | 200 μ A | 20 μ A | 20 μ A | 200 μ A | 200 μ A | 200 μ A |
| V_{GT} | 0.8V | 0.7V | 0.7V | 0.8V | 0.8V | 0.8V |
| I_H | 5.0mA | 5.0mA | 3.0mA | 5.0mA | 5.0mA | 5.0mA |

* TO-92-18R lead forming available. Please consult factory.

SCRs

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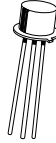

| | | | | | |
|------------------|---|---------------|----------------|---|---------------|
| I_T (AMPS) | 0.8 | | | | |
| @ T_C (°C) | 60 | | | | |
| I_{TSM} (AMPS) | 10 | | | | |
| CASE |  <p>TO-92 Pinout A G C</p> | | |  <p>TO-92 Pinout C G A</p> | |
| | V_{RRM} (VOLTS) | | | | |
| 30 | C103Y* | | | | |
| 60 | C103YY* | | | | |
| 100 | C103A* | | | | |
| 200 | C103B* | CS55B* | CS55BZ* | CS92B | CS92BZ |
| 400 | | CS55D* | CS55DZ* | CS92D | CS92DZ |
| 600 | | | | CS92M | CS92MZ |
| 800 | | | | CS92N | CS92NZ |

| | | | | | |
|----------|-------------|-------------|------------|-------------|------------|
| I_{GT} | 200 μ A | 200 μ A | 20 μ A | 200 μ A | 20 μ A |
| V_{GT} | 0.8V | 0.8V | 0.8V | 0.8V | 0.8V |
| I_H | 5.0mA | 5.0mA | 5.0mA | 5.0mA | 5.0mA |

* TO-92-18R lead forming available. Please consult factory.

SCRs



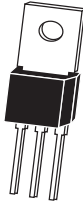
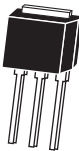
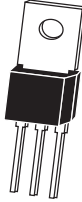
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| I_T (AMPS) | 1.0 | | 1.6 | | |
|-------------------|---|--------|---|---------|--------|
| @ T_C (°C) | 90 | 90 | 70 | 70 | 70 |
| I_{TSM} (AMPS) | 10 | 10 | 15 | 15 | 15 |
| |  | |  | | |
| CASE | TO-18 | | TO-39 | | |
| V_{RRM} (VOLTS) | | | | | |
| 25 | | | | | 2N2322 |
| 50 | | | 2N1595 | 2N1595A | 2N2323 |
| 100 | | | 2N1596 | 2N1596A | 2N2324 |
| 150 | | | | | 2N2325 |
| 200 | CS18B | CS18BZ | 2N1597 | 2N1597A | 2N2326 |
| 250 | | | | | 2N2327 |
| 300 | | | 2N1598 | 2N1598A | 2N2328 |
| 400 | CS18D | CS18DZ | 2N1599 | 2N1599A | 2N2329 |
| 600 | CS18M | CS18MZ | | | |
| 800 | CS18N | CS18NZ | | | |

| | | | | | |
|----------|-------------|------------|------|-------|-------------|
| I_{GT} | 200 μ A | 20 μ A | 10mA | 2.0mA | 200 μ A |
| V_{GT} | 0.8V | 0.8V | 2.0V | 2.0V | 0.8V |
| I_H | 5.0mA | 5.0mA | 20mA | 5.0mA | 2.0mA |

SCRs

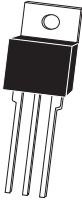

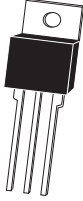
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| I_T (AMPS) | 1.6 | 4.0 | | | |
|-------------------|---|---|---|---|---|
| @ T_C (°C) | 55 | 90 | 85 | 85 | 30 |
| I_{TSM} (AMPS) | 6.0 | 35 | 30 | 30 | 20 |
| |  |  |  |  |  |
| CASE | TO-18 | TO-39 | TO-202 | TO-202-2 | TO-202 |
| V_{RRM} (VOLTS) | | | | | |
| 50 | 2N6605 | | | | |
| 60 | 2N6606 | | | | |
| 100 | 2N6607 | | | | C106A1 |
| 200 | 2N6608 | CS39-4B | CS202-4B | CS202-4B-2 | C106B1 |
| 300 | | | | | C106C1 |
| 400 | | CS39-4D | CS202-4D | CS202-4D-2 | C106D1 |
| 500 | | | | | C106E1 |
| 600 | | CS39-4M | CS202-4M | CS202-4M-2 | C106M1 |
| 800 | | CS39-4N | | | |

| | | | | | |
|----------|-------------|-------------|-------------|-------------|-------------|
| I_{GT} | 200 μ A | 200 μ A | 200 μ A | 200 μ A | 200 μ A |
| V_{GT} | 0.8V | 0.8V | 0.8V | 0.8V | 0.8V |
| I_H | 5.0mA | 5.0mA | 5.0mA | 5.0mA | 5.0mA |

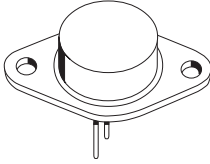
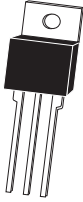
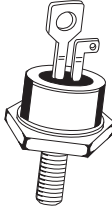
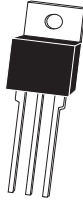
SCRs

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| I_T (AMPS) | 8.0 | | | 10 | 12 |
|-------------------|---|---|--------|---|-----------|
| @ T_C (°C) | 90 | 100 | 100 | 90 | 90 |
| I_{TSM} (AMPS) | 90 | 100 | 100 | 100 | 120 |
| |  |  | |  | |
| CASE | TO-220 | TO-64 | | TO-220 | |
| V_{RRM} (VOLTS) | | | | | |
| 25 | | 2N1770,A | 2N4167 | | |
| 50 | | 2N1771,A | 2N4168 | | |
| 100 | | 2N1772,A | 2N4169 | | |
| 150 | | 2N1773,A | | | |
| 200 | CS220-8B | 2N1774,A | 2N4170 | CS220-10B | CS220-12B |
| 250 | | 2N1775,A | | | |
| 300 | | 2N1776,A | 2N4171 | | |
| 400 | CS220-8D | 2N1777,A | 2N4172 | CS220-10D | CS220-12D |
| 500 | | 2N1778,A | 2N4173 | | |
| 600 | CS220-8M | 2N2619 | 2N4174 | CS220-10M | CS220-12M |
| 800 | CS220-8N | | | CS220-10N | CS220-12N |
| 1000 | | | | | CS220-12P |
| I_{GT} | 15mA | 15mA | 30mA | 15mA | 15mA |
| V_{GT} | 1.5V | 1.5V | 1.5V | 1.5V | 1.5V |
| I_H | 30mA | 25mA | 30mA | 30mA | 30mA |

SCRs

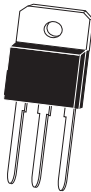
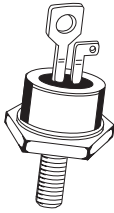
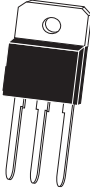
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| I_T (AMPS) | 16 | | | 25 | |
|-------------------|--|---------|---|--|---|
| @ T_C (°C) | 90 | 90 | 90 | 70 | 90 |
| I_{TSM} (AMPS) | 200 | 200 | 160 | 200 | 250 |
| CASE |  TO-3 50 mil | |  TO-220 |  TO-48 |  TO-220 |
| V_{RRM} (VOLTS) | | | | | |
| 25 | | | | 2N681,A | |
| 50 | | | | 2N682,A | |
| 100 | 2N3668 | | | 2N683,A | |
| 150 | | | | 2N684,A | |
| 200 | 2N3669 | CS3-16B | CS220-16B* | 2N685,A | CS220-25B |
| 250 | | | | 2N686,A | |
| 300 | | | | 2N687,A | |
| 400 | 2N3670 | CS3-16D | CS220-16D* | 2N688,A | CS220-25D |
| 500 | | | | 2N689,A | |
| 600 | 2N4103 | CS3-16M | CS220-16M* | 2N690,A | CS220-25M |
| 700 | | | | 2N691,A | |
| 800 | | CS3-16N | CS220-16N* | 2N692,A | CS220-25N |
| 1000 | | | CS220-16P* | | CS220-25P |
| 1200 | | | | | CS220-25PB |
| I_{GT} | 40mA | 25mA | 25mA | 40mA | 40mA |
| V_{GT} | 2.0V | 2.0V | 1.5V | 2.0V | 1.5V |
| I_H | 50mA | 40mA | 40mA | 50mA | 50mA |

* Not recommended for new designs.

SCRs

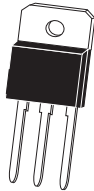
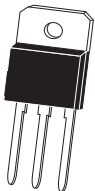
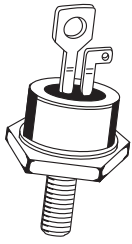
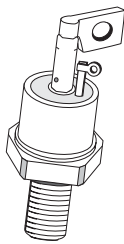

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| I_T (AMPS) | 30 | | 35 | |
|-------------------|---|--|---|---|
| @ T_C (°C) | 85 | | 75 | 85 |
| I_{TSM} (AMPS) | 400 | | 330 | 400 |
| |  | |  |  |
| CASE | TO-218 ISOL | | TO-48 | TO-218 |
| V_{RRM} (VOLTS) | ISOLATED | | | |
| 200* | CS218I-30B | | CS48-35B | CS218-35B* |
| 400* | CS218I-30D | | CS48-35D | CS218-35D* |
| 600 | CS218I-30M | | CS48-35M | CS218-35M* |
| 800 | CS218I-30N | | CS48-35N | CS218-35N* |
| 1000 | CS218I-30P | | CS48-35P | CS218-35P* |
| 1200 | CS218I-30PB | | CS48-35PB | CS218-35PB* |
| I_{GT} | 50mA | | 40mA | 50mA |
| V_{GT} | 1.5V | | 1.5V | 1.5V |
| I_H | 75mA | | 100mA | 75mA |

* Not recommended for new designs.

SCRs

(Continued)

| I_T (AMPS) | 50 | 55 | 70 | 110 | |
|-------------------|---|--|---|---|---|
| @ T_C (°C) | 75 | 75 | 110 | 80 | 80 |
| I_{TSM} (AMPS) | 500 | 500 | 1000 | 1600 | 1600 |
| CASE |  TO-218 ISOL |  TO-218 |  TO-65 |  TO-83 |  TO-94 |
| V_{RRM} (VOLTS) | ISOLATED | | | | |
| 200 | CS218I-50B | CS218-55B* | CS65-70B | CS83-110B | CS94-110B |
| 400 | CS218I-50D | CS218-55D* | CS65-70D | CS83-110D | CS94-110D |
| 600 | CS218I-50M | CS218-55M* | CS65-70M | CS83-110M | CS94-110M |
| 800 | CS218I-50N | CS218-55N* | CS65-70N | CS83-110N | CS94-110N |
| 1000 | CS218I-50P | CS218-55P* | CS65-70P | CS83-110P | CS94-110P |
| 1200 | CS218I-50PB | CS218-55PB* | CS65-70PB | CS83-110PB | CS94-110PB |
| I_{GT} | 80mA | 80mA | 100mA | 100mA | 100mA |
| V_{GT} | 1.5V | 1.5V | 3.0V | 3.0V | 3.0V |
| I_H | 150mA | 150mA | 200mA | 100mA | 100mA |

* Not recommended for new designs.