

## Fast Switching Thyristors — Disc Type



| Model  | $I_{T(AV)}$<br>@ $T_C=70^{\circ}C$<br>A | $V_{DRM}$<br>$V_{RRM}$<br>V | $V_{TM}$<br>V | $I_{T(AV)}$<br>@ $I_{TM}$<br>A | $I_{DRM}$<br>$I_{RRM}$<br>mA | $I_{GT}$<br>mA | $V_{GT}$<br>V | $dv/dt$<br>V/ $\mu s$ | $di/dt$<br>A/ $\mu s$ | $t_q$<br>@<br>115 $^{\circ}C$<br>$\mu s$ | $t_{gt}$<br>@<br>115 $^{\circ}C$<br>$\mu s$ | $R_{\theta jc}$<br>$^{\circ}C/W$ | Outline         |           |
|--------|-----------------------------------------|-----------------------------|---------------|--------------------------------|------------------------------|----------------|---------------|-----------------------|-----------------------|------------------------------------------|---------------------------------------------|----------------------------------|-----------------|-----------|
| KK100  | 100                                     | 400~<br>1600                | $\leq 3.0$    | 300                            | $\leq 30$                    | $\leq 150$     | $\leq 2.5$    | $\geq 50$             | $\geq 50$             | $\leq 35$                                | $\leq 4$                                    | 0.20                             | T6              |           |
| KK200  | 200                                     |                             |               | 600                            |                              |                |               |                       |                       |                                          |                                             | 0.11                             | T6 T7           |           |
| KK300  | 300                                     |                             |               | 900                            |                              |                |               |                       |                       |                                          |                                             | 0.08                             | T7 T8           |           |
| KK500  | 500                                     |                             | $\leq 3.2$    | 3000                           | 1500                         | $\leq 40$      | $\leq 250$    | $\leq 3.0$            | $\geq 200$            |                                          | $\geq 200$                                  | $\leq 6$                         | 0.04            | T8 T9     |
| KK800  | 800                                     |                             |               |                                | 2400                         | $\leq 60$      |               |                       |                       |                                          |                                             |                                  | 0.026           | T9 T10    |
| KK1000 | 1000                                    |                             |               |                                | $\leq 80$                    | 0.02           |               |                       |                       |                                          |                                             |                                  | T10 T11         |           |
| KK1200 | 1200                                    |                             |               |                                | $\leq 100$                   | 0.02           |               |                       |                       |                                          |                                             |                                  | T11 T12         |           |
| KK1500 | 1500                                    |                             |               |                                | $\leq 120$                   | 0.015          |               |                       |                       |                                          |                                             |                                  |                 |           |
| KK1800 | 1800                                    |                             |               |                                | $\leq 160$                   | 0.012          |               |                       |                       |                                          |                                             |                                  |                 | T12 T13   |
| KK2000 | 2000                                    |                             |               |                                | 5000                         | $\leq 200$     |               |                       |                       |                                          |                                             |                                  | 0.012           | T13 T14   |
| KK2500 | 2500                                    |                             |               |                                |                              | 0.01           |               |                       |                       |                                          |                                             |                                  | T14 T15         |           |
| KK3000 | 3000                                    |                             |               |                                |                              | 0.01           |               |                       |                       |                                          |                                             |                                  | T15 T16         |           |
| KK1000 | 1000                                    |                             |               |                                | 1800~<br>2200                | $\leq 3.2$     |               |                       |                       |                                          |                                             |                                  | 3000            | $\leq 80$ |
| KK1200 | 1200                                    | $\leq 100$                  | 0.02          | T11 T12                        |                              |                |               |                       |                       |                                          |                                             |                                  |                 |           |
| KK1500 | 1500                                    | $\leq 120$                  | 0.015         |                                |                              |                |               |                       |                       |                                          |                                             |                                  |                 |           |
| KK1800 | 1800                                    | $\leq 160$                  | 0.012         | T12 T13                        |                              |                |               |                       |                       |                                          |                                             |                                  |                 |           |
| KK2000 | 2000                                    | $\leq 200$                  | 0.012         | T13 T14                        |                              |                |               |                       |                       |                                          |                                             |                                  |                 |           |
| KK2500 | 2500                                    | 5000                        | 0.01          | T14 T15                        |                              |                |               |                       |                       |                                          |                                             |                                  |                 |           |
| KK1500 | 1500                                    | 2400~<br>2800               | $\leq 3.2$    | 3000                           | $\leq 120$                   | $\leq 300$     | $\leq 3.0$    | $\geq 200$            | $\geq 200$            | $\leq 80$                                | $\leq 6$                                    | 0.02                             | T11 T12         |           |
| KK1800 | 1800                                    |                             |               |                                | $\leq 200$                   |                |               |                       |                       |                                          |                                             | 0.012                            | T12 T13         |           |
| KK2000 | 2000                                    |                             |               |                                | 5000                         |                |               |                       |                       |                                          |                                             | 0.012                            | T13 T14         |           |
| KK2500 | 2500                                    |                             |               | 0.01                           |                              |                |               |                       |                       |                                          |                                             | T14 T15                          |                 |           |
| KK3000 | 3000                                    | 2400~<br>2800               | $\leq 3.2$    | 5000                           | $\leq 200$                   | $\leq 300$     | $\leq 3.0$    | $\geq 500$            | $\geq 200$            | $\leq 80$                                |                                             | 0.009                            | T15             |           |
| KK4000 | 4000                                    |                             |               |                                | $\leq 200$                   |                |               |                       |                       |                                          |                                             | 0.0075                           | T16             |           |
| KK4000 | 4000<br>55 $^{\circ}C$                  | 2500<br>3000                | $\leq 2.8$    | 6000                           | $\leq 200$                   |                |               |                       |                       | $\leq 100$                               |                                             | 0.0057                           | KH <sub>C</sub> |           |
| KK3400 | 3500                                    | 3500                        | $\leq 2.5$    | 4000                           | $\leq 200$                   |                |               |                       |                       | $\leq 200$                               |                                             |                                  |                 |           |
|        | 55 $^{\circ}C$                          | 4500                        |               |                                |                              |                |               |                       |                       |                                          |                                             |                                  |                 |           |