

**MCR100-8 1A Sensitive SCR**

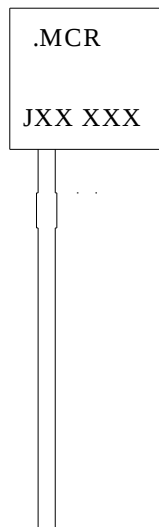
Rev.A.2.1

The MCR100-8 SCR provides high  $dV/dt$  rate with strong resistance to electromagnetic interface. It is especially recommended for use on residual current circuit breaker, straight hair, igniter etc. Complying with UL standards (File ref: E252906). Package TO-92 is RoHS compliant.

| Symbol            | Value      | Unit    |
|-------------------|------------|---------|
| $I_{T(RMS)}$      | 1          | A       |
| $V_{DRM}/V_{RRM}$ | 800        | V       |
| $I_{GT}$          | $\leq 200$ | $\mu A$ |

| Parameter                                              | Symbol       | Value   | Unit |
|--------------------------------------------------------|--------------|---------|------|
| Storage junction temperature range                     | $T_{stg}$    | -40-150 |      |
| Operating junction temperature range                   | $T_j$        | -40-125 |      |
| Repetitive peak off-state voltage ( $T_j=25^\circ C$ ) | $V_{DRM}$    | 800     | V    |
| Repetitive peak reverse voltage ( $T_j=25^\circ C$ )   | $V_{RRM}$    | 800     | V    |
| Average on-state current ( $T_C \leq 54^\circ C$ )     | $I_{T(AV)}$  | 0.6     | A    |
| RMS on-state current ( $T_C \leq 54^\circ C$ )         | $I_{T(RMS)}$ | 1       | A    |
| Non repetitive surge                                   |              |         |      |





**MCR100-8**



| Order code  | Voltage<br>$V_{\text{DRM}}/V_{\text{RRM}}$ (V) | IGT( $\mu$ A) | Package | Base qty.<br>(pcs) | Delivery<br>mode |
|-------------|------------------------------------------------|---------------|---------|--------------------|------------------|
| MCR100-8    | 800                                            | 200           | TO-92   | 1,000              | Bulk Pack        |
| MCR100-8-TR |                                                |               |         | 2,000              | Tape & Reel      |

## Document Revision History

| Date |  |
|------|--|
|------|--|



| PACKAGE | OUTLINE   | BAG (PCS) | INNER BOX (PCS) | CARTON BOX (PCS) |
|---------|-----------|-----------|-----------------|------------------|
| TO-92   | Bulk Pack | 1,000     | 10,000          | 50,000           |

| Ref.  | Dimensions  |       |       |        |       |       |
|-------|-------------|-------|-------|--------|-------|-------|
|       | Millimeters |       |       | Inches |       |       |
|       | Min.        | Typ.  | Max.  | Min.   | Typ.  | Max.  |
| P     | 12.40       | 12.70 | 13.00 | 0.488  | 0.500 | 0.512 |
| P0    | 12.40       | 12.70 | 13.00 | 0.488  | 0.500 | 0.512 |
| P1    | 3.55        | 3.85  | 4.15  | 0.140  | 0.152 | 0.163 |
| P2    | 5.95        | 6.35  | 6.75  | 0.233  | 0.250 | 0.265 |
| P     | -1.00       | 0     | 1.00  | -0.039 | 0     | 0.039 |
| F1 F2 | 2.30        | 2.50  | 2.70  | 0.090  | 0.098 | 0.106 |
| F1-F2 | -0.10       | 0     | 0.10  | -0.004 | 0     | 0.004 |
| W     | 17.50       | 18.00 | 19.00 | 0.689  | 0.709 | 0.748 |
| W0    | 5.50        | 6.00  | 6.50  | 0.217  | 0.236 | 0.256 |
| W1    | 8.50        | 9.00  | 9.50  | 0.335  | 0.354 | 0.374 |
| W2    |             |       | 1.00  |        |       | 0.039 |
| D0    | 3.80        | 4.00  | 4.20  | 0.150  | 0.157 | 0.165 |
| H     | -1.00       | 0     | 1.00  | -0.039 | 0     | 0.039 |
| L1    | 2.50        |       |       | 0.098  |       |       |
| H     | 18.00       | 19.00 | 20.00 | 0.709  | 0.748 | 0.787 |
|       |             |       |       |        |       |       |

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