



| ORDERING INFORMATION |                    |              |                     |          |           |
|----------------------|--------------------|--------------|---------------------|----------|-----------|
| PART NO.             | AEC-Q101 QUALIFIED | PACKING CODE | GREEN COMPOUND CODE | PACKAGE  | PACKING   |
| MBR20xxCT            | Prefix "H"         | C0           | Suffix "G"          | TO-220AB | 50 / Tube |

Note 1: "xx" defines voltage from 35V (MBR2035CT) to 200V (MBR20200CT)

| EXAMPLE       |           |                    |              |                     |                    |
|---------------|-----------|--------------------|--------------|---------------------|--------------------|
| PREFERRED P/N | PART NO.  | AEC-Q101 QUALIFIED | PACKING CODE | GREEN COMPOUND CODE | DESCRIPTION        |
| MBR2060CT C0  | MBR2060CT |                    | C0           |                     |                    |
| MBR2060CT C0G | MBR2060CT |                    | C0           | G                   | Green compound     |
| MBR2060CTHC0  | MBR2060CT | H                  | C0           |                     | AEC-Q101 qualified |

## RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

FIG. 1- FORWARD CURRENT DERATING CURVE

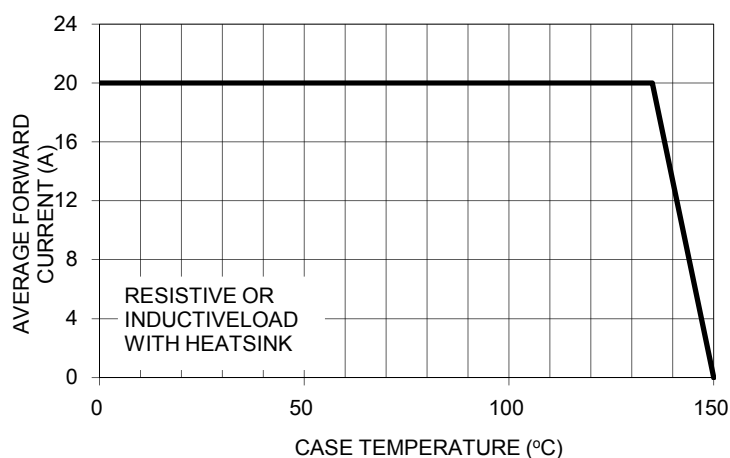


FIG. 2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

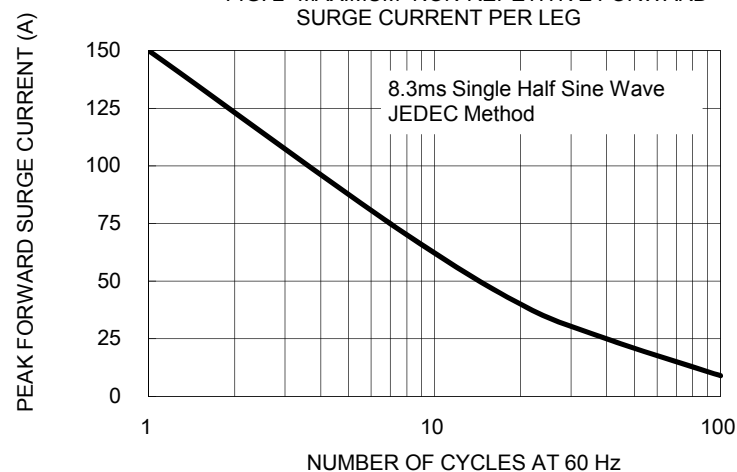


FIG. 3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG

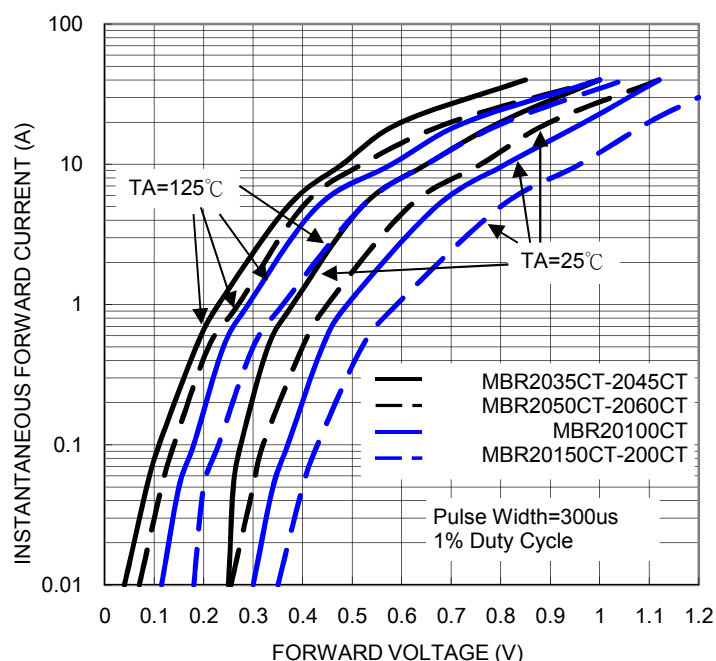


FIG. 4- TYPICAL REVERSE CHARACTERISTICS PER LEG

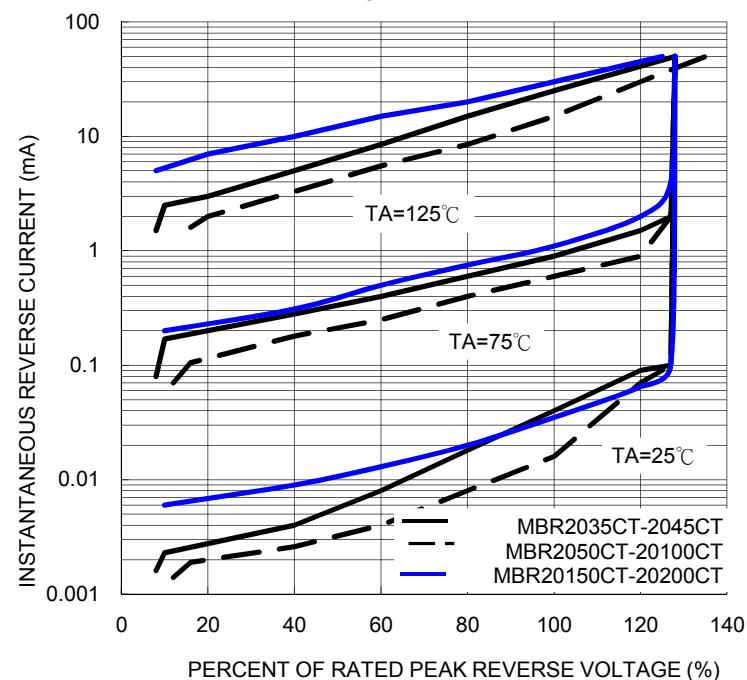


FIG. 5- TYPICAL JUNCTION CAPACITANCE PER LEG

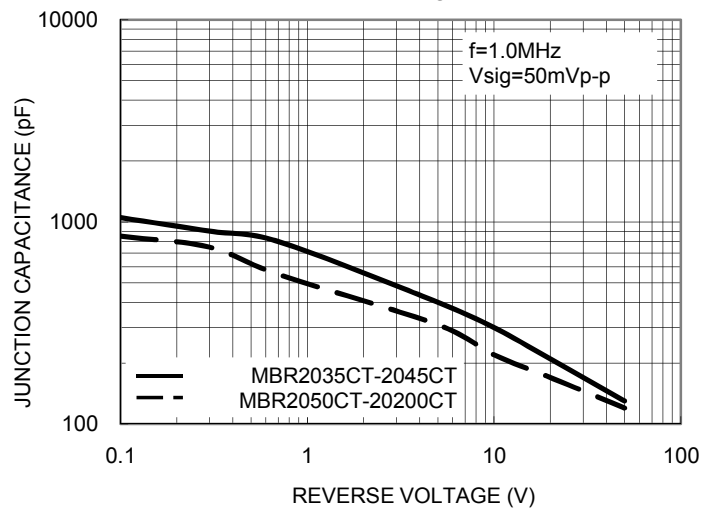
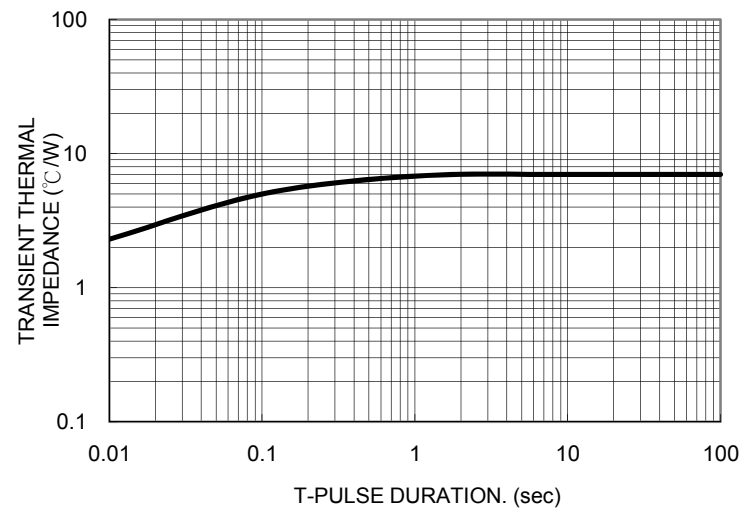
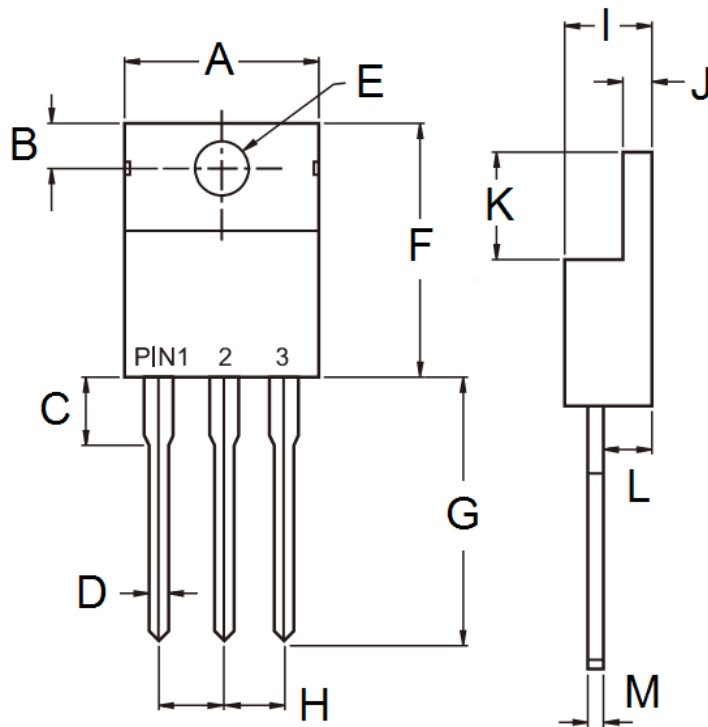


FIG. 6- TYPICAL TRANSIENT THERMAL IMPEDANCE PER LEG



## PACKAGE OUTLINE DIMENSIONS



| DIM. | Unit(mm) |       | Unit(inch) |       |
|------|----------|-------|------------|-------|
|      | Min      | Max   | Min        | Max   |
| A    | -        | 10.50 | -          | 0.413 |
| B    | 2.62     | 3.44  | 0.103      | 0.135 |
| C    | 2.80     | 4.20  | 0.110      | 0.165 |
| D    | 0.68     | 0.94  | 0.027      | 0.037 |
| E    | 3.54     | 4.00  | 0.139      | 0.157 |
| F    | 14.60    | 16.00 | 0.575      | 0.630 |
| G    | 13.19    | 14.79 | 0.519      | 0.582 |
| H    | 2.41     | 2.67  | 0.095      | 0.105 |
| I    | 4.42     | 4.76  | 0.174      | 0.187 |
| J    | 1.14     | 1.40  | 0.045      | 0.055 |
| K    | 5.84     | 6.86  | 0.230      | 0.270 |
| L    | 2.20     | 2.80  | 0.087      | 0.110 |
| M    | 0.35     | 0.64  | 0.014      | 0.025 |

## MARKING DIAGRAM



P/N = Marking Code  
 G = Green Compound  
 YWW = Date Code  
 F = Factory Code