



**ORDERING INFORMATION**

| PART NO.               | AEC-Q101<br>QUALIFIED | PACKING CODE | GREEN COMPOUND<br>CODE | PACKAGE   | PACKING   |
|------------------------|-----------------------|--------------|------------------------|-----------|-----------|
| MBRF20xxCT<br>(Note 1) | Prefix "H"            | C0           | Suffix "G"             | ITO-220AB | 50 / Tube |

Note 1: "xx" defines voltage from 35V (MBRF2035CT) to 200V (MBRF20200CT)

**EXAMPLE**

| PREFERRED P/N  | PART NO.   | AEC-Q101<br>QUALIFIED | PACKING CODE | GREEN<br>COMPOUND | DESCRIPTION        |
|----------------|------------|-----------------------|--------------|-------------------|--------------------|
| MBRF2060CT C0  | MBRF2060CT |                       | C0           |                   |                    |
| MBRF2060CT C0G | MBRF2060CT |                       | C0           | G                 | Green compound     |
| MBRF2060CTHC0  | MBRF2060CT | H                     | C0           |                   | AEC-Q101 qualified |

**RATINGS AND CHARACTERISTICS CURVES**

(TA=25°C unless otherwise noted)

FIG. 1 FORWARD CURRENT DERATING CURVE

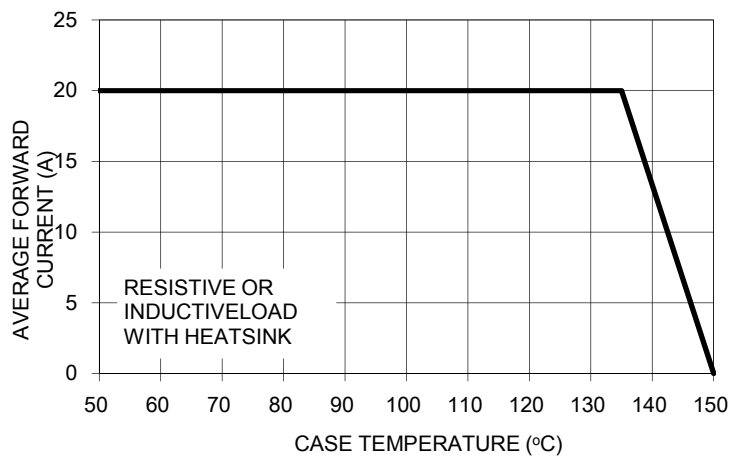


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

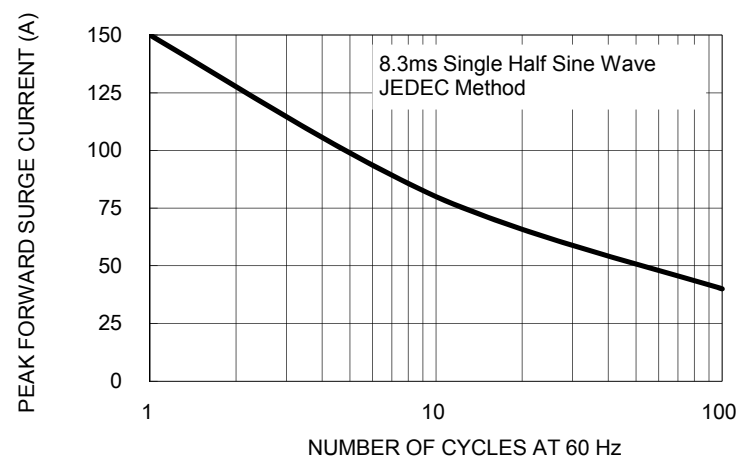


FIG. 3 TYPICAL FORWARD CHARACTERISTICS PER LEG

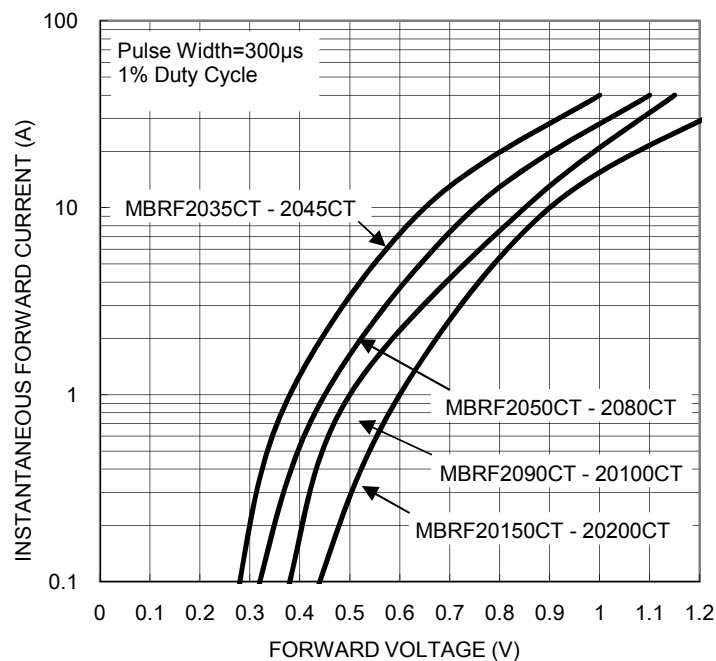


FIG. 4 TYPICAL REVERSE CHARACTERISTICS PER LEG

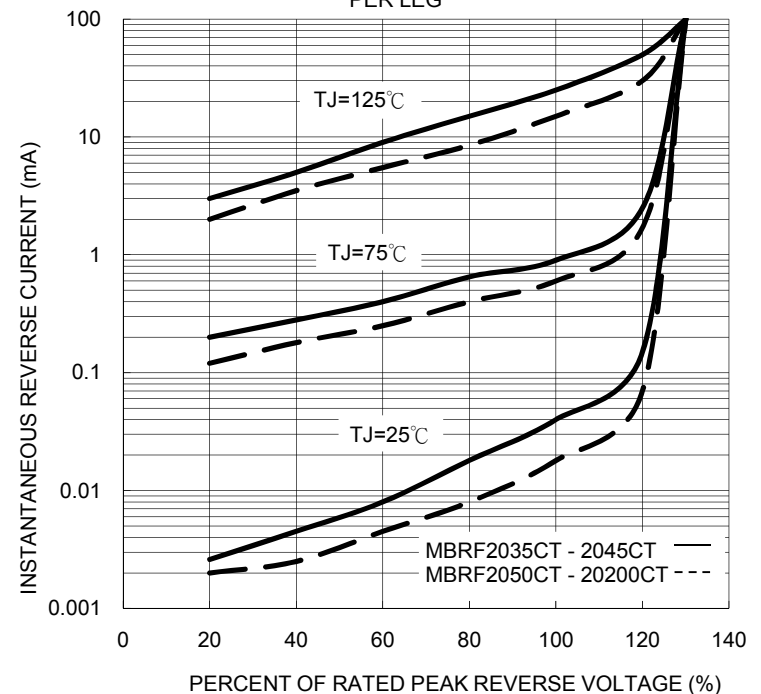


FIG. 5 TYPICAL JUNCTION CAPACITANCE  
PER LEG

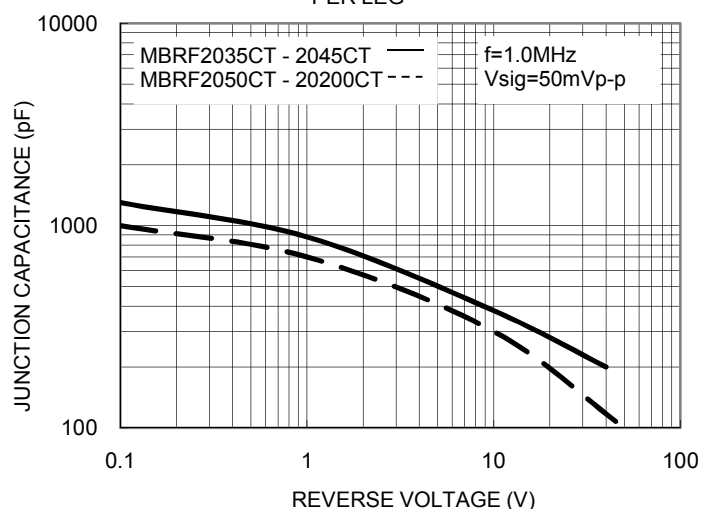
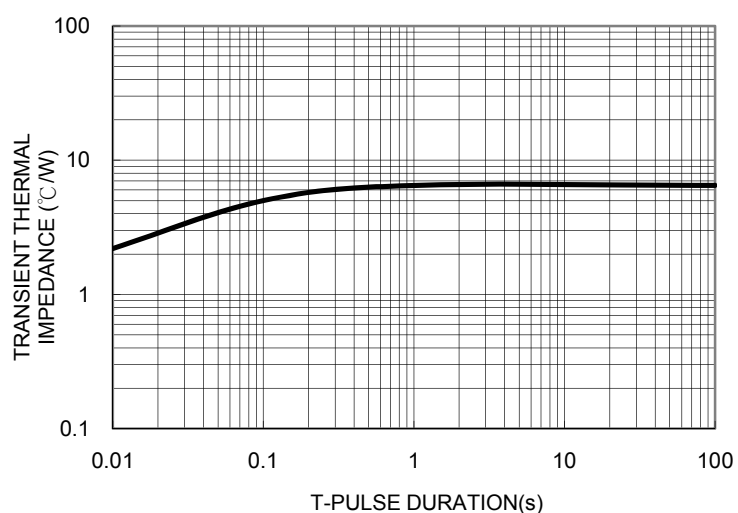
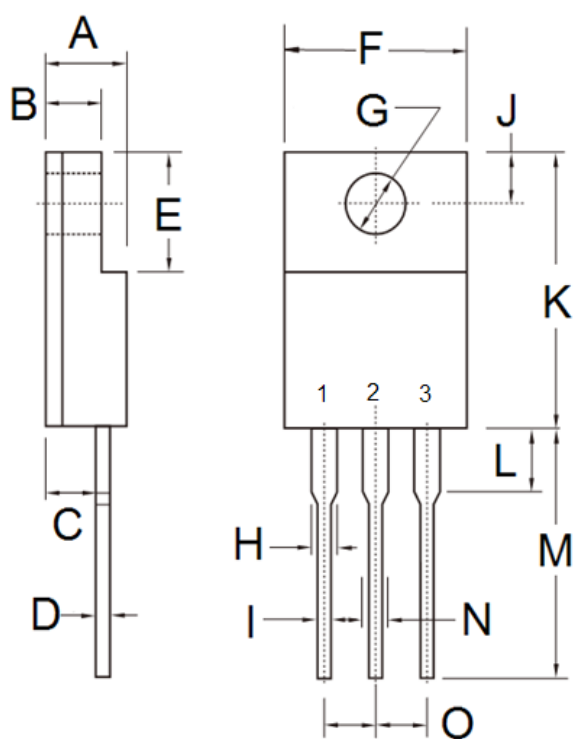


FIG. 6 TYPICAL TRANSIENT THERMAL IMPEDANCE  
PER LEG

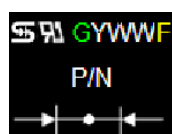


## PACKAGE OUTLINE DIMENSIONS



| DIM. | Unit (mm) |       | Unit (inch) |       |
|------|-----------|-------|-------------|-------|
|      | Min       | Max   | Min         | Max   |
| A    | 4.30      | 4.70  | 0.169       | 0.185 |
| B    | 2.50      | 3.16  | 0.098       | 0.124 |
| C    | 2.30      | 2.96  | 0.091       | 0.117 |
| D    | 0.46      | 0.76  | 0.018       | 0.030 |
| E    | 6.30      | 6.90  | 0.248       | 0.272 |
| F    | 9.60      | 10.30 | 0.378       | 0.406 |
| G    | 3.00      | 3.40  | 0.118       | 0.134 |
| H    | 0.95      | 1.45  | 0.037       | 0.057 |
| I    | 0.50      | 0.90  | 0.020       | 0.035 |
| J    | 2.40      | 3.20  | 0.094       | 0.126 |
| K    | 14.80     | 15.50 | 0.583       | 0.610 |
| L    | -         | 4.10  | -           | 0.161 |
| M    | 12.60     | 13.80 | 0.496       | 0.543 |
| N    | -         | 1.80  | -           | 0.071 |
| O    | 2.41      | 2.67  | 0.095       | 0.105 |

## MARKING DIAGRAM



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

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