

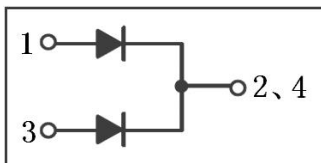
Rev.A Nov.-2016

TO-263

Schottky Diode in a TO-263 Plastic Package.

Low power loss, high efficiency.

For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.



PIN1 Anode

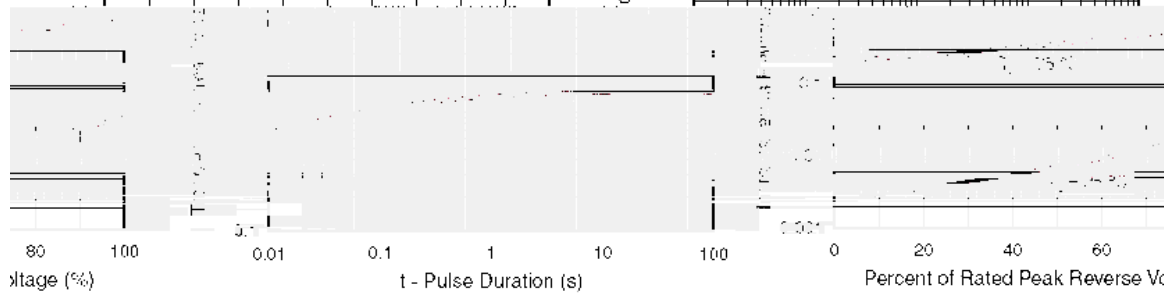
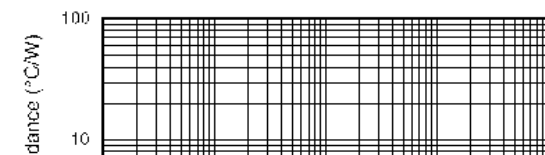
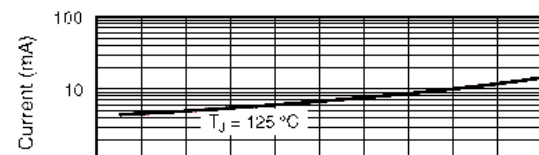
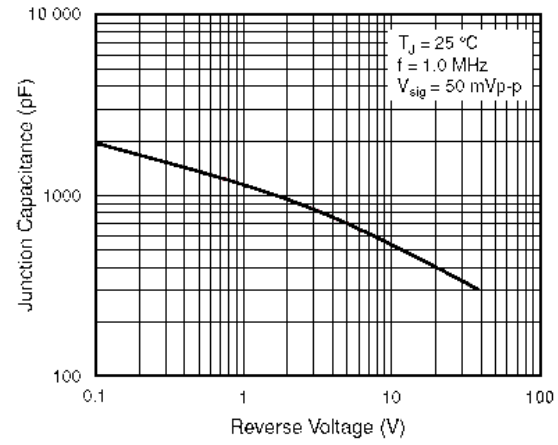
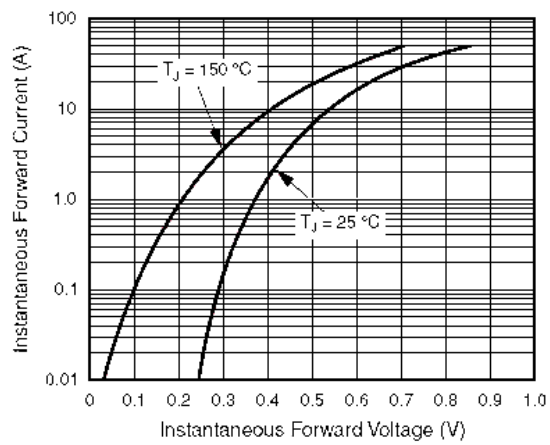
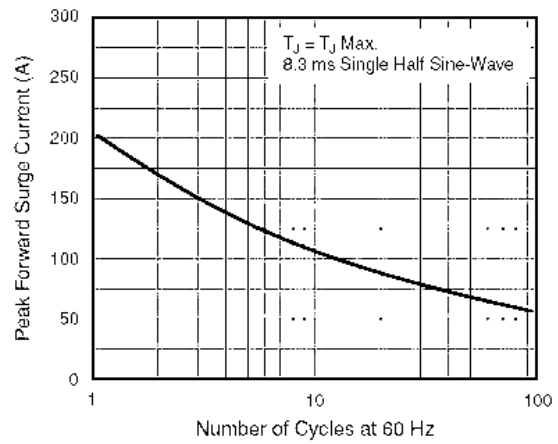
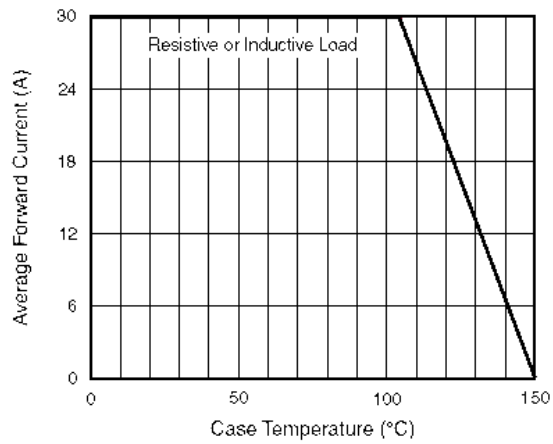
PIN 2 4 Cathode

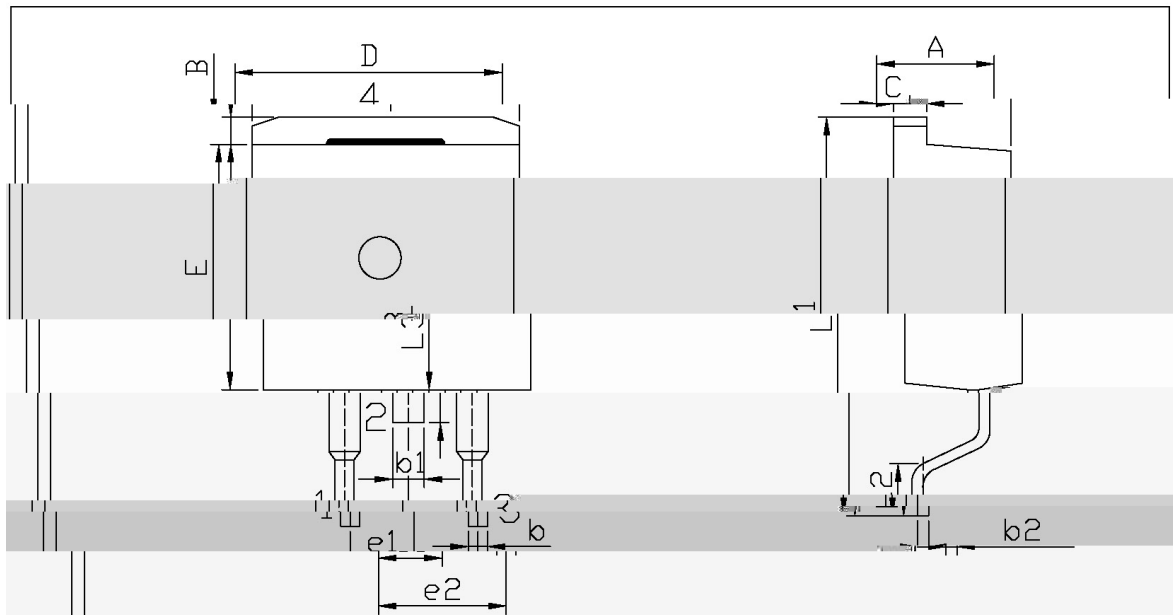
PIN 3 Anode

See Marking Instructions.

| Parameter                                 | Symbol                   | Rating  | Unit |
|-------------------------------------------|--------------------------|---------|------|
| Peak Repetitive Reverse Voltage           | $V_{RRM}$                | 45      | V    |
| Peak Repetitive Forward Current           | $I_{F(AV)}$              | 15      | A    |
|                                           | $I_{F(AV)}$ total device | 30      | A    |
| Non-Repetitive Peak Forward Surge Current | $I_{FSM}$                | 200     | A    |
| Repetitive Peak Reverse Surge Current     | $I_{RRM}$                | 2.0     | A    |
| Thermal Resistance Junction to Case       | $R_{JC}$                 | 1.5     | /W   |
| Junction Temperature Range                | $T_J$                    | 150     |      |
| Storage Temperature Range                 | $T_{stg}$                | -65 150 |      |

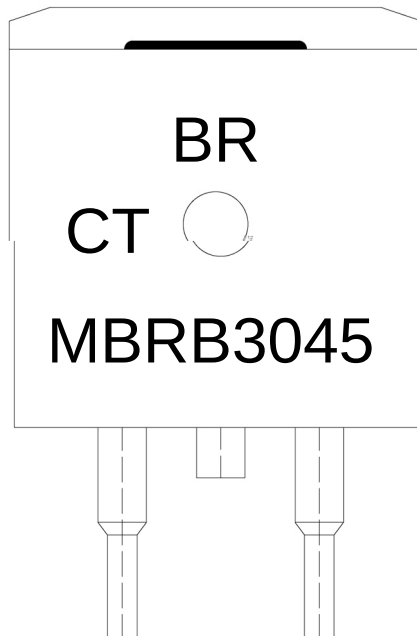
| Parameter                     | Symbol | Test Conditions            | Min | Typ | Max   | Unit |
|-------------------------------|--------|----------------------------|-----|-----|-------|------|
| Forward Voltage               | $V_F$  | $I_F=30A(T_C=25^\circ C)$  |     |     | 0.76  | V    |
|                               |        | $I_F=20A(T_C=125^\circ C)$ |     |     | 0.60  | V    |
|                               |        | $I_F=30A(T_C=125^\circ C)$ |     |     | 0.72  | V    |
| Instantaneous Reverse Current | $I_R$  | $T_J=25$                   |     |     | 1.0   | mA   |
|                               |        | $T_J=125$                  |     |     | 60    | mA   |
| Voltage Rate of Change        | dv/dt  |                            |     |     | 10000 | V/ s |





单位: mm

| Dimensions In Millimeters |      |      | Dimensions In Millimeters |      |      |
|---------------------------|------|------|---------------------------|------|------|
| Symbol                    | Min  | Max  | Symbol                    | Min  | Max  |
| A                         | 4.30 | 4.70 | E <sub>L</sub>            | 0.00 | 0.05 |
| B                         | 1.00 | 1.40 | e <sup>10</sup>           | 2.34 | 2.44 |



BR

MBRB3045

CT:

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Note:

BR: Company Code

MBRB3045 Product Type.

CT: Internal Structure

\*\*\*\*: Lot No. Code, code change with Lot No.

