

# Schottky Barrier Diodes

## 30V

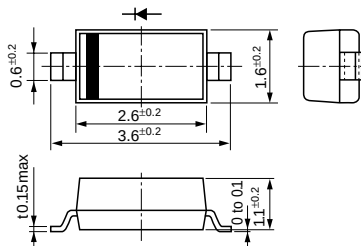
| V <sub>RM</sub><br>(V) | Package                     | Part Number | I <sub>F</sub> (A)<br>(A) | I <sub>FSM</sub><br>(A)                    | T <sub>j</sub><br>(°C) | T <sub>stg</sub><br>(°C) | V <sub>F</sub><br>(V)<br>max |                       | I <sub>R</sub><br>(mA)                 | I <sub>R</sub> (H)<br>(mA)             | R <sub>th</sub> (j-ℓ)<br>R <sub>th</sub> (j-c)<br>(°C/W) | Mass<br>(g) | Fig.<br>No. | Page where<br>characteristic<br>curve is shown |
|------------------------|-----------------------------|-------------|---------------------------|--------------------------------------------|------------------------|--------------------------|------------------------------|-----------------------|----------------------------------------|----------------------------------------|----------------------------------------------------------|-------------|-------------|------------------------------------------------|
|                        |                             |             |                           | 50Hz<br>Half-cycle Sinewave<br>Single Shot |                        |                          |                              | I <sub>F</sub><br>(A) | V <sub>R</sub> =V <sub>RM</sub><br>max | V <sub>R</sub> =V <sub>RM</sub><br>max |                                                          |             |             |                                                |
| 30                     | Surface Mount               | MI1A3       | 1.0                       | 12                                         | -40 to +150            | 0.47                     | 1.0                          | 1                     | 70                                     | 150 (T <sub>j</sub> )                  | 70                                                       | 0.011       | 1           | 82                                             |
|                        |                             | MI2A3 ★     | 1.0                       | 12                                         | -40 to +125            | 0.39                     | 1.0                          | 2                     | 110                                    | 125 (T <sub>j</sub> )                  | 70                                                       | 0.011       |             |                                                |
|                        |                             | SFPA-53     | 1.0                       | 30                                         | -40 to +125            | 0.36                     | 1.0                          | 1.5                   | 70                                     | 100                                    | 20                                                       | 0.072       | 2           |                                                |
|                        |                             | SFPJ-53 ★   | 1.0                       | 30                                         | -40 to +150            | 0.45                     | 1.0                          | 1.0                   | 35                                     | 150                                    | 20                                                       | 0.072       |             |                                                |
|                        |                             | SFPA-63     | 2.0                       | 40                                         | -40 to +125            | 0.36                     | 2.0                          | 3.0                   | 140                                    | 100                                    | 20                                                       | 0.072       |             |                                                |
|                        |                             | SFPE-63 ★   | 2.0                       | 40                                         | -40 to +150            | 0.55                     | 2.0                          | 0.2                   | 20                                     | 150 (T <sub>j</sub> )                  | 20                                                       | 0.072       |             |                                                |
|                        |                             | SFPJ-63     | 2.0                       | 40                                         | -40 to +150            | 0.45                     | 2.0                          | 2.0                   | 70                                     | 150                                    | 20                                                       | 0.072       |             |                                                |
|                        |                             | SFPA-73     | 3.0                       | 50                                         | -40 to +125            | 0.36                     | 3.0                          | 4.5                   | 210                                    | 100                                    | 20                                                       | 0.072       |             |                                                |
|                        |                             | SFPJ-73     | 3.0                       | 50                                         | -40 to +150            | 0.45                     | 3.0                          | 3.0                   | 100                                    | 150                                    | 20                                                       | 0.072       |             |                                                |
|                        |                             | SPJ-G53S    | 5.0                       | 100                                        | -40 to +150            | 0.45                     | 5.0                          | 5.0                   | 250                                    | 150                                    | 5                                                        | 0.29        |             |                                                |
|                        | Surface Mount<br>Center-tap | SPJ-63S     | 6.0                       | 50                                         | -40 to +150            | 0.45                     | 3.0                          | 3                     | 100                                    | 150 (T <sub>j</sub> )                  | 5                                                        | 0.29        | 3           |                                                |
|                        |                             | Axial       | AK 03                     | 1.0                                        | 25                     | -40 to +150              | 0.55                         | 1.0                   | 1                                      | 50                                     | 100 (T <sub>j</sub> )                                    | 22          | 0.13        | 4                                              |
|                        | EA 03                       |             | 1.0                       | 30                                         | -40 to +125            | 0.36                     | 1.0                          | 1.5                   | 70                                     | 100                                    | 20                                                       | 0.3         | 5           | —                                              |
|                        | EK 03                       |             | 1.0                       | 40                                         | -40 to +150            | 0.55                     | 1.0                          | 5                     | 50                                     | 100                                    | 20                                                       | 0.3         |             | 86                                             |
|                        | EK 13                       |             | 1.5                       | 40                                         | -40 to +150            | 0.55                     | 2.0                          | 5                     | 50                                     | 100                                    | 17                                                       | 0.3         | 6           |                                                |
|                        | RK 13                       |             | 1.7                       | 60                                         | -40 to +150            | 0.55                     | 2.0                          | 5                     | 50                                     | 100                                    | 15                                                       | 0.45        | 7           | 87                                             |
|                        | RA 13                       |             | 2.0                       | 40                                         | -40 to +125            | 0.36                     | 2.0                          | 3                     | 140                                    | 100                                    | 15                                                       | 0.45        |             | —                                              |
|                        | RK 33                       |             | 2.5                       | 50                                         | -40 to +150            | 0.55                     | 2.5                          | 5                     | 50                                     | 100                                    | 12                                                       | 0.6         | 8           | 87                                             |
|                        | RJ 43                       |             | 3.0                       | 50                                         | -40 to +150            | 0.45                     | 3.0                          | 3                     | 100                                    | 150                                    | 8                                                        | 1.2         |             | 9                                              |
|                        | RK 43                       |             | 3.0                       | 80                                         | -40 to +150            | 0.55                     | 3.0                          | 5                     | 50                                     | 100                                    | 8                                                        | 1.2         | 88          |                                                |
|                        | Center-tap                  | FMJ-23L     | 10                        | 100                                        | -40 to +150            | 0.45                     | 5.0                          | 5                     | 250                                    | 150 (T <sub>j</sub> )                  | 4                                                        | 2.1         | 10          | 93                                             |
|                        |                             | FMJ-2203    | 20                        | 150                                        | -40 to +150            | 0.47                     | 10.0                         | 10                    | 350                                    | 150                                    | 4                                                        | 2.1         |             | —                                              |
|                        |                             | FMJ-2303    | 30                        | 150                                        | -40 to +150            | 0.48                     | 15.0                         | 15                    | 500                                    | 150                                    | 4                                                        | 2.1         |             |                                                |

### External Dimensions

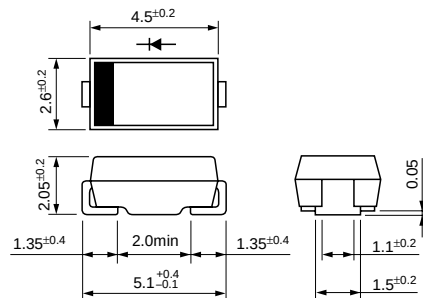
Flammability: UL94V-0 or Equivalent (Unit: mm)

\*: Under development

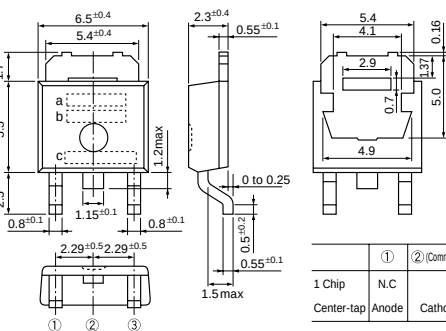
1



2



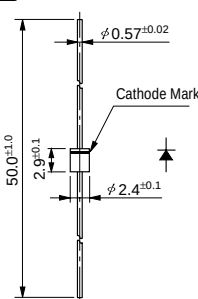
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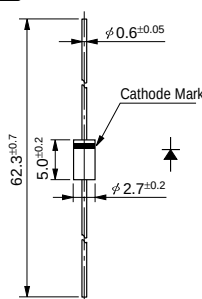
a: Part Number  
b: Polarity  
c: Lot No.

|            | ①     | ② (Common to backside of case) | ③     |
|------------|-------|--------------------------------|-------|
| 1 Chip     | N.C   | Cathode                        | Anode |
| Center-tap | Anode | Cathode (Common)               | Anode |

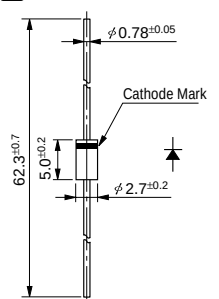
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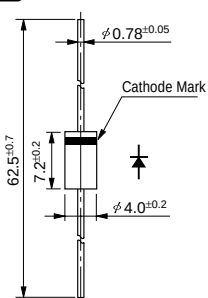
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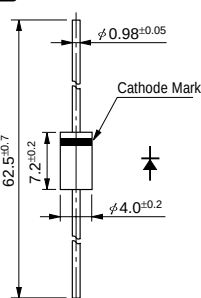
6



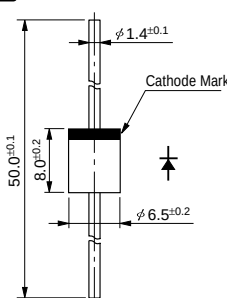
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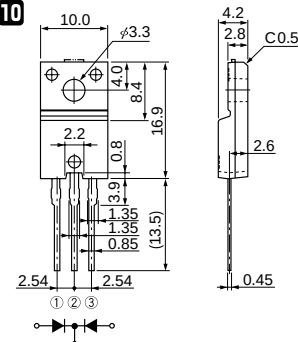
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9

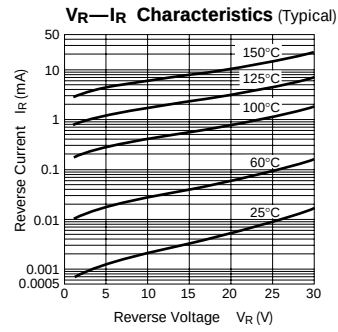
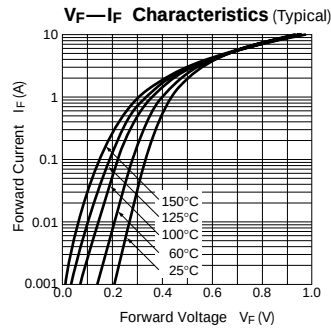
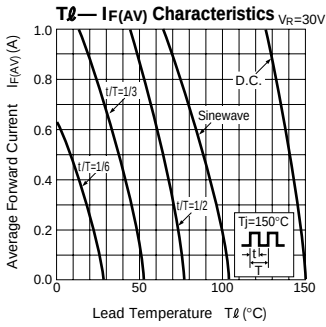


10

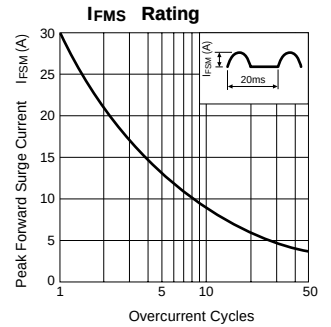
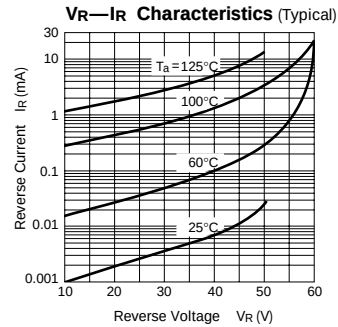
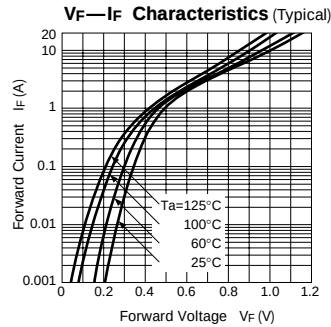
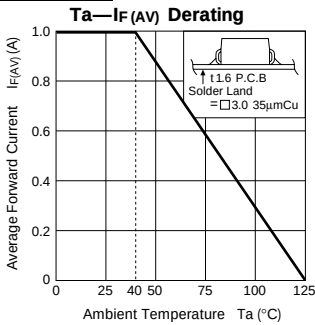


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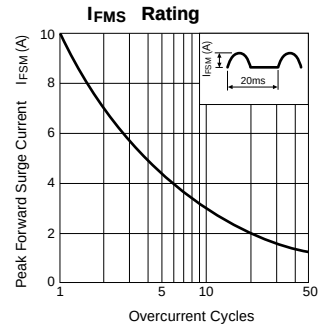
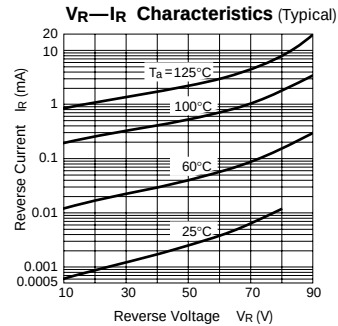
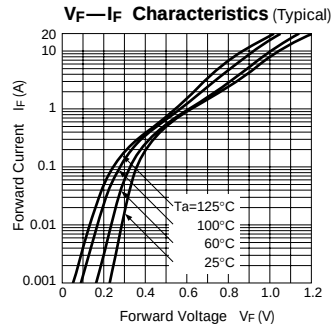
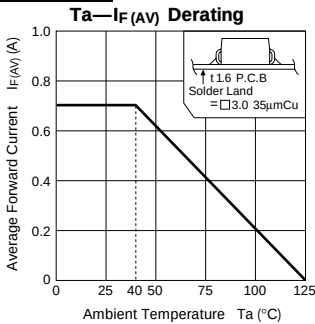
## MI1A3



## SFPB-54



## SFPB-56



## SFPB-59

