

# Ultra-Fast-Recovery Rectifier Diodes **600V**

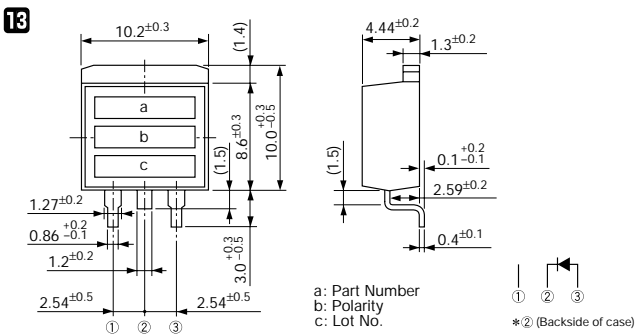
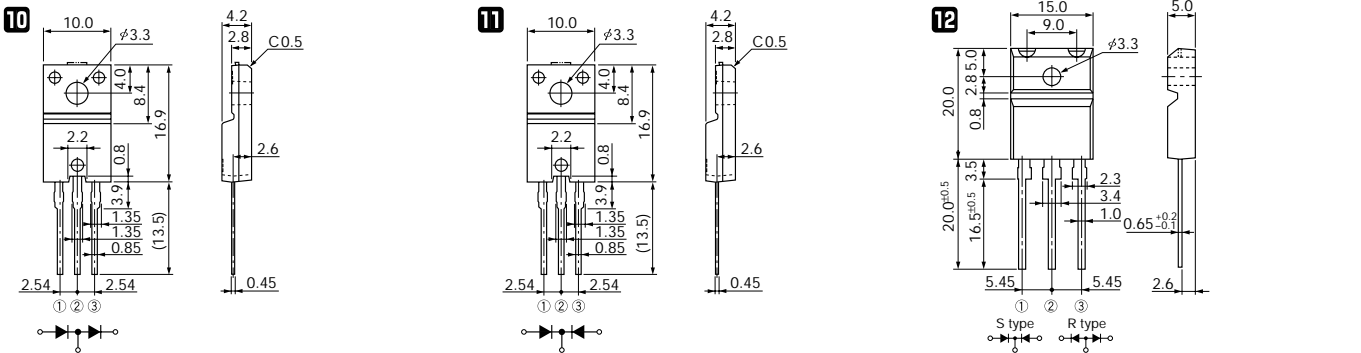
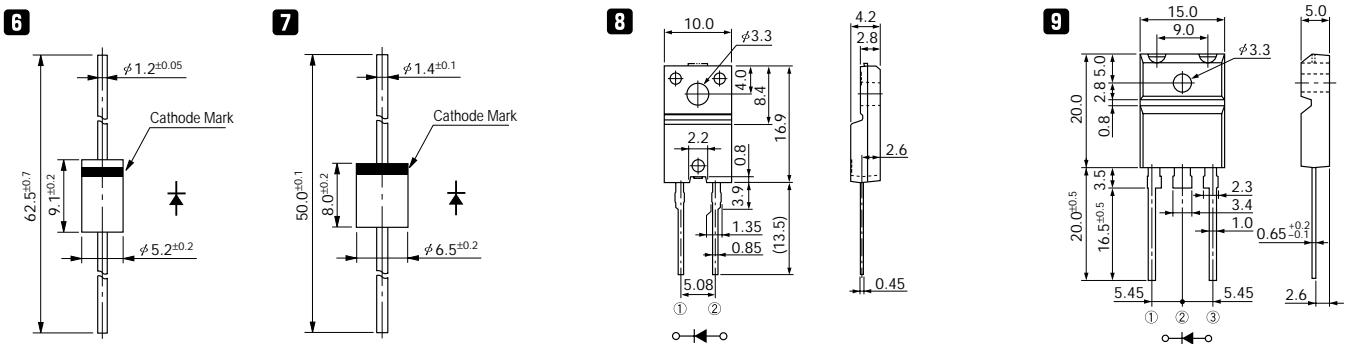
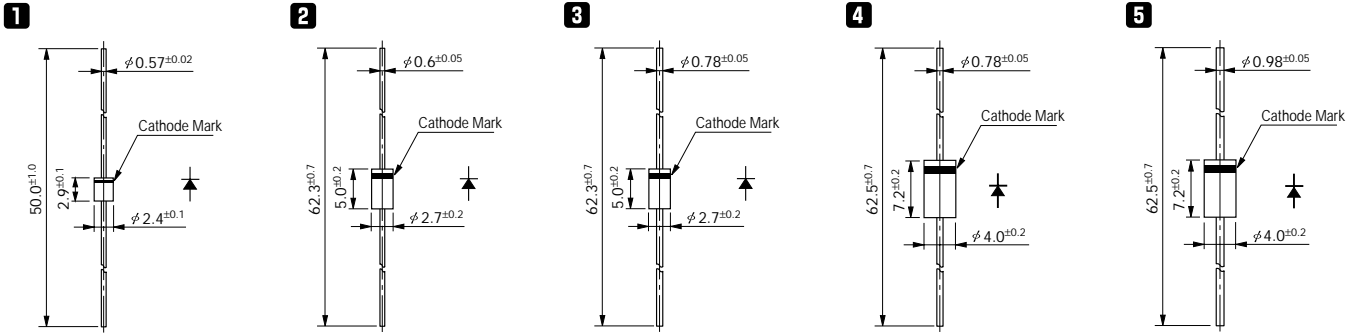
$t_{rr} \textcircled{1}$ :  $I_F/I_R (=I_F)$  90% Recovery Point  
 (ex.  $I_F/I_R = 100\text{mA}/100\text{mA}$  90% Recovery Point)  
 $t_{rr} \textcircled{2}$ :  $I_F/I_R (=2 I_F)$  75% Recovery Point  
 (ex.  $I_F/I_R = 100\text{mA}/200\text{mA}$  75% Recovery Point)

| $V_{RM}$<br>(V) | Package       | Part Number | $I_F$ (AV)<br>(A) | $I_{FSM}$<br>(A)                           | $T_j$<br>(°C) | $T_{stg}$<br>(°C) | $V_F$<br>(V)<br>max | $I_F$<br>(A) | $I_R$<br>( $\mu$ A)   | $I_R$ (H)<br>(mA)     | $T_a$<br>(°C) | $t_{rr} \textcircled{1}$<br>(ns) |                      | $t_{rr} \textcircled{2}$<br>(ns) |     | $R_{th(j-\ell)}$<br>$R_{th(j-c)}$<br>(°C/W) | Mass<br>(g) | Fig. No. | Page where characteristic curve is shown |
|-----------------|---------------|-------------|-------------------|--|---------------|-------------------|---------------------|--------------|-----------------------|-----------------------|---------------|----------------------------------|----------------------|----------------------------------|-----|---|-------------|----------|--|
|                 |               |             |                   | 50Hz<br>Half-cycle Sinewave<br>Single Shot |               |                   |                     |              | $V_R = V_{RM}$<br>max | $V_R = V_{RM}$<br>max |               | $I_F/I_{FP}$<br>(mA)             | $I_F/I_{FP}$<br>(mA) |                                  |     |   |             |          |  |
| 600             | Surface Mount | MP3-306     | 30.0              | 180  | -40 to +150   | 1.7               | 30.0                | 100          | 0.5                   | 150 (Tj)              | 150           | 500/500                          | 70                   | 500/1000                         | 2.0 | 1.04  | <b>13</b>   | 80       |  |
|                 | Axial         | AG01A       | 0.5               | 15   | -40 to +150   | 1.8               | 0.5                 | 100          | 0.5                   | 100                   | 100           | 100/100                          | 50                   | 100/200                          | 22  | 0.13  | <b>1</b>    | 64       |  |
|                 |               | EG01A       | 0.5               | 10   | -40 to +150   | 2.0               | 0.5                 | 100          | 0.5                   | 100                   | 100           | 100/100                          | 50                   | 100/200                          | 20  | 0.2   | <b>2</b>    | 65       |  |
|                 |               | EG 1A       | 0.6               | 10   | -40 to +150   | 2.0               | 0.6                 | 100          | 0.5                   | 100                   | 100           | 100/100                          | 50                   | 100/200                          | 17  | 0.3   | <b>3</b>    | 66       |  |
|                 |               | RG 10A      | 1.0               | 50   | -40 to +150   | 2.0               | 1.0                 | 500          | 2.5                   | 100                   | 100           | 100/100                          | 50                   | 100/200                          | 15  | 0.4   | <b>4</b>    |          |  |
|                 |               | RG 2A       | 1.0               | 50   | -40 to +150   | 2.0               | 1.0                 | 500          | 2.5                   | 100                   | 100           | 100/100                          | 50                   | 100/200                          | 12  | 0.6   | <b>5</b>    | 68       |  |
|                 |               | RD 2A       | 1.2               | 30   | -40 to +150   | 1.55              | 1.2                 | 50           | 0.1                   | 150                   | 50            | 100/100                          | 35                   | 100/200                          | 12  | 0.6   | <b>6</b>    | 69       |  |
|                 |               | RL 3A       | 2.0               | 60   | -40 to +150   | 1.7               | 3.0                 | 50           | 0.2                   | 150 (Tj)              | 50            | 100/100                          | 35                   | 100/200                          | 10  | 1.0   | <b>6</b>    | 70       |  |
|                 |               | RG 4A       | 1.0 (2.0)         | 50   | -40 to +150   | 2.0               | 2.0                 | 500          | 2.5                   | 100                   | 100           | 100/100                          | 50                   | 100/200                          | 8   | 1.2   | <b>7</b>    |          |  |
|                 |               | RL 4A       | 3.0               | 80   | -40 to +150   | 1.5               | 3.0                 | 50           | 0.1                   | 150 (Tj)              | 50            | 500/500                          | 35                   | 500/1000                         | 8   | 1.2   | <b>7</b>    | 71       |  |
|                 | Frame-2Pin    | FMG-G26S    | 4.0               | 50   | -40 to +150   | 2.5               | 4.0                 | 500          | 3.0                   | 100                   | 100           | 100/100                          | 50                   | 100/200                          | 4.0 | 2.1   | <b>8</b>    | 72       |  |
|                 |               | FML-G16S    | 5.0               | 50   | -40 to +150   | 1.5               | 5.0                 | 100          | 0.5                   | 100                   | 50            | 500/500                          | 35                   | 500/1000                         | 4.0 | 2.1   |             | 79       |  |
|                 |               | FMX-G16S    | 5.0               | 50   | -40 to +150   | 1.5               | 5.0                 | 50           | 15                    | 150                   | 30            | 500/500                          | 25                   | 500/1000                         | 4.0 | 2.1   |             |          |  |
|                 |               | FMN-G16S*   | 5.0               | 50   | -40 to +150   | 1.2               | 5.0                 | 50           | 10                    | 150 (Tj)              | 100           | 100/100                          | 50                   | 100/200                          | 4.0 | 2.1   |             | —        |  |
|                 |               | FMD-G26S    | 10.0              | 100  | -40 to +150   | 1.7               | 10.0                | 100          | 0.3                   | 150                   | 50            | 500/500                          | 30                   | 500/1000                         | 4.0 | 2.1   |             | 80       |  |
|                 |               | FMX-G26S    | 10.0              | 100  | -40 to +150   | 1.5               | 10.0                | 100          | 20                    | 150                   | 30            | 500/500                          | 25                   | 500/1000                         | 4.0 | 2.1   |             |          |  |
|                 |               | FMG-G36S    | 8.0               | 80   | -40 to +150   | 2.5               | 8.0                 | 500          | 3                     | 100                   | 100           | 500/500                          | 50                   | 500/1000                         | 2.0 | 5.5   |             | <b>9</b> | 74                                       |
|                 | Center-tap    | FMC-26U     | 3.0               | 50   | -40 to +150   | 2.0               | 3.0                 | 500          | 3                     | 150 (Tj)              | 70            | 500/500                          | 35                   | 500/1000                         | 4.0 | 2.1   | <b>10</b>   | 74       |  |
|                 |               | FMG-26S, R  | 6.0               | 50   | -40 to +150   | 2.2               | 3.0                 | 500          | 3                     | 100                   | 100           | 100/100                          | 50                   | 100/200                          | 4.0 | 2.1   | <b>11</b>   | 75       |  |
|                 |               | FMG-36S, R  | 15.0              | 80   | -40 to +150   | 2.2               | 7.5                 | 1000         | 5                     | 100                   | 100           | 100/100                          | 50                   | 100/200                          | 2.0 | 5.5   | <b>12</b>   | 78       |  |
|                 |               | FML-36S     | 20.0              | 100  | -40 to +150   | 1.7               | 10.0                | 100          | 0.3                   | 100                   | 65            | 500/500                          | 35                   | 500/1000                         | 2.0 | 5.5   |             |          |  |

\* : Under development

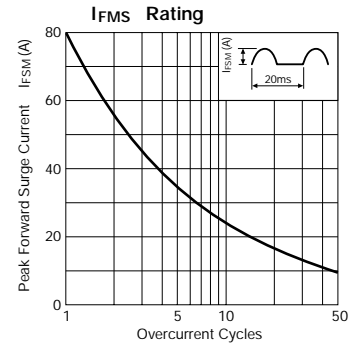
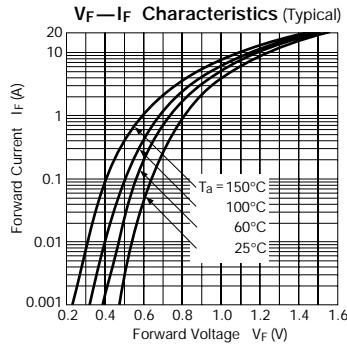
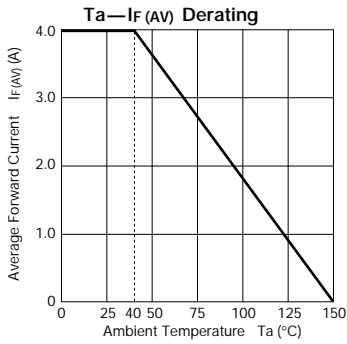
# Ultra-Fast-Recovery Rectifier Diodes 600V

## External Dimensions Flammability: UL94V-0 or Equivalent (Unit: mm)

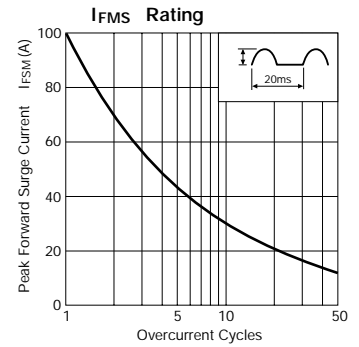
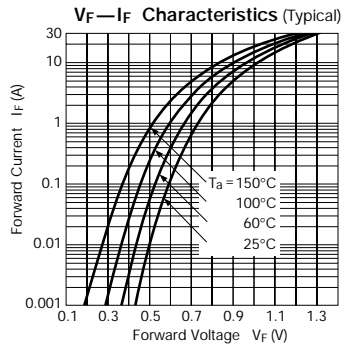
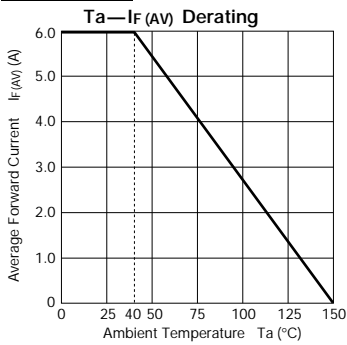


# Ultra-Fast-Recovery Rectifier Diodes

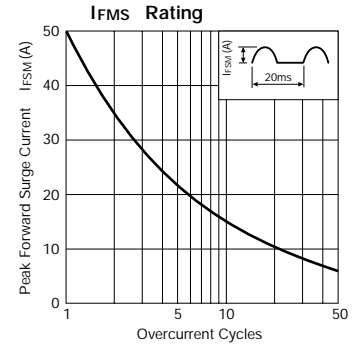
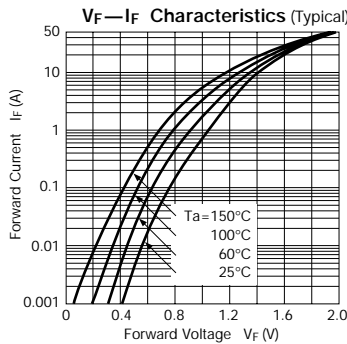
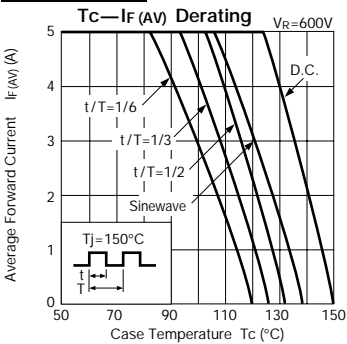
## RBV-402L



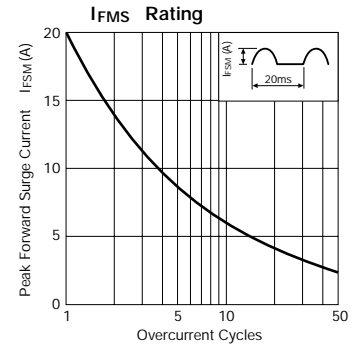
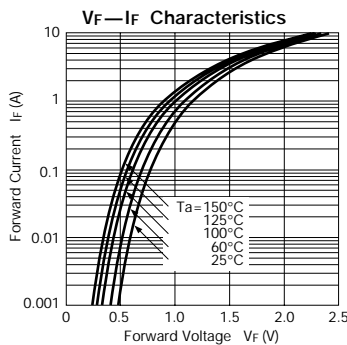
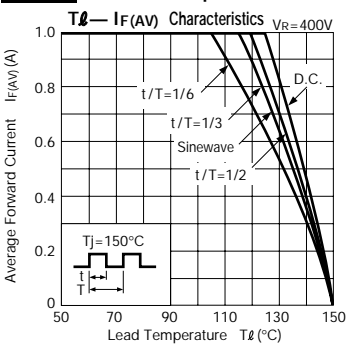
## RBV-602L



## FMX-G16S



## AL01 Under development



## RL 31 Under development

