

# Ultra-Fast-Recovery Rectifier Diodes 600V

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

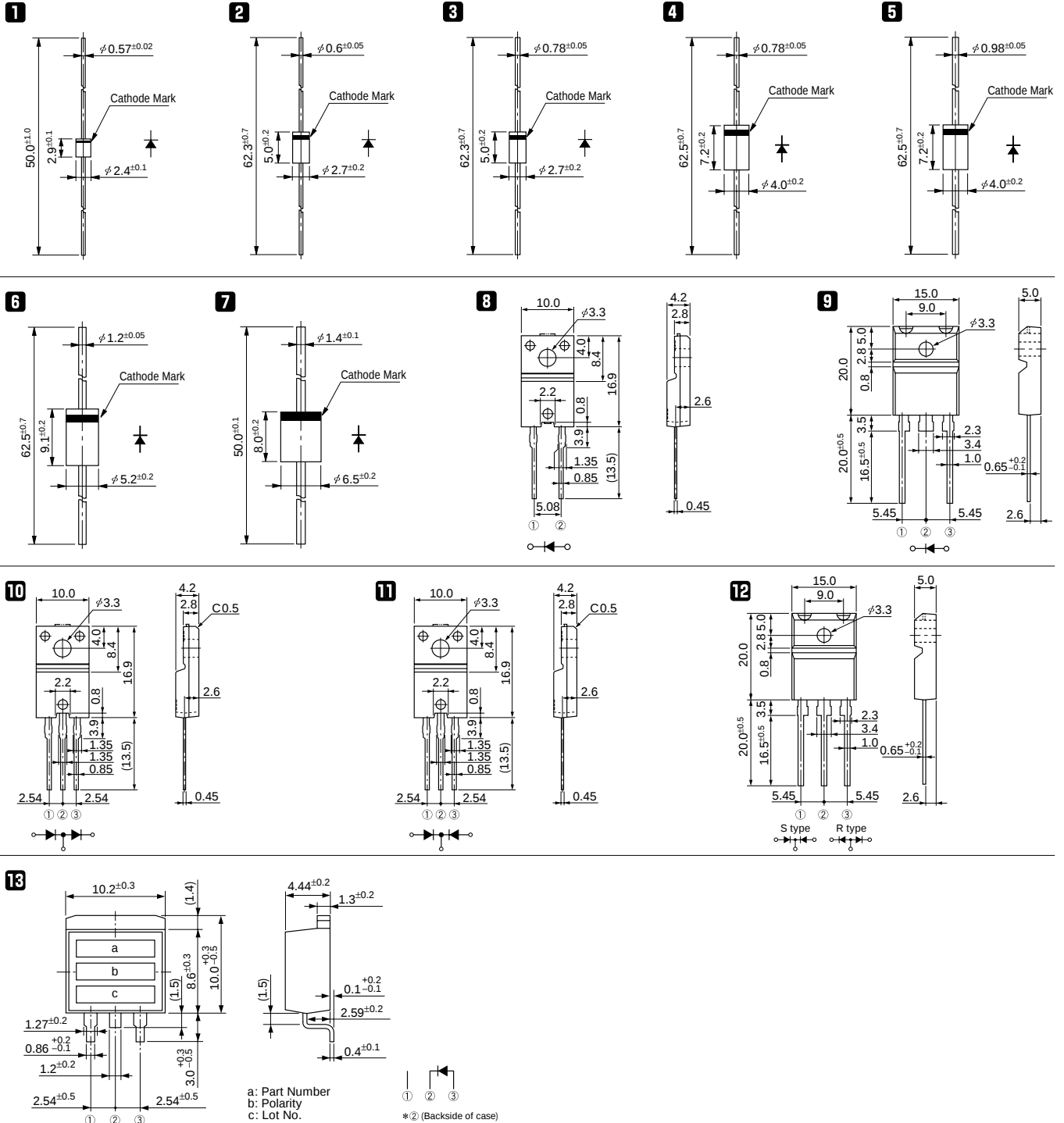
| V <sub>RM</sub><br>(V) | Package       | Part Number | I <sub>F</sub> (A)<br>(A) | I <sub>FSM</sub><br>(A)                    | T <sub>j</sub><br>(°C) | Tstg<br>(°C) | V <sub>F</sub><br>(V)<br>max | I <sub>F</sub><br>(A) | I <sub>R</sub><br>(μA)                  | I <sub>R</sub> (H)<br>(mA)              | T <sub>a</sub><br>(°C) | t <sub>rr</sub> ①<br>(ns)               |                                         | t <sub>rr</sub> ②<br>(ns) |     | 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 |                        |              |                              |                       | V <sub>R</sub> = V <sub>RM</sub><br>max | V <sub>R</sub> = V <sub>RM</sub><br>max |                        | I <sub>F</sub> /I <sub>FP</sub><br>(mA) | I <sub>F</sub> /I <sub>FP</sub><br>(mA) |                           |     |                                                          |             |             |                                                |
| 600                    | Surface Mount | MP3-306     | 30.0                      | 180                                        | −40 to +150            | 1.7          | 30.0                         | 100                   | 0.5                                     | 150 (T <sub>j</sub> )                   | 150                    | 500/500                                 | 70                                      | 500/1000                  | 2.0 | 1.04                                                     | 13          | 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                                                     | 1           | 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                                                      | 2           | 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                                                      | 3           | 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                                                      | 4           | 66          |                                                |
|                        |               | 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                                                      | 5           | 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                                                      | 6           | 69          |                                                |
|                        |               | RL 3A       | 2.0                       | 60                                         | −40 to +150            | 1.7          | 3.0                          | 50                    | 0.2                                     | 150 (T <sub>j</sub> )                   | 50                     | 100/100                                 | 35                                      | 100/200                   | 10  | 1.0                                                      | 6           | 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                                                      | 7           | 71          |                                                |
|                        |               | RL 4A       | 3.0                       | 80                                         | −40 to +150            | 1.5          | 3.0                          | 50                    | 0.1                                     | 150 (T <sub>j</sub> )                   | 50                     | 500/500                                 | 35                                      | 500/1000                  | 8   | 1.2                                                      | 7           | 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                                                      | 8           | 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 (T <sub>j</sub> )                   | 100                    | 100/100                                 | 50                                      | 100/200                   | 4.0 | 2.1                                                      |             | 80          |                                                |
|                        |               | 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                                                      | 80          |             |                                                |
|                        |               | 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                                                      | 9           | 74          |                                                |
|                        | Center-tap    | FMC-26U     | 3.0                       | 50                                         | −40 to +150            | 2.0          | 3.0                          | 500                   | 3                                       | 150 (T <sub>j</sub> )                   | 70                     | 500/500                                 | 35                                      | 500/1000                  | 4.0 | 2.1                                                      | 10          | 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                                                      | 11          | 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                                                      | 12          | 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

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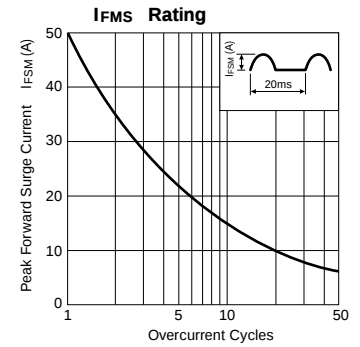
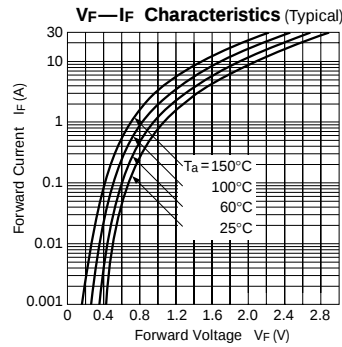
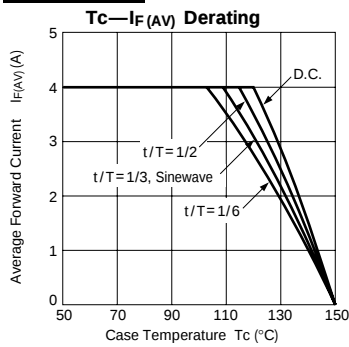
## External Dimensions

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

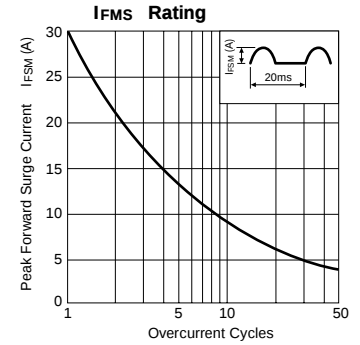
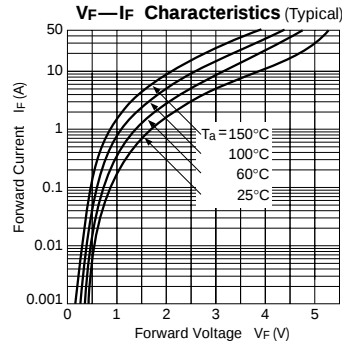
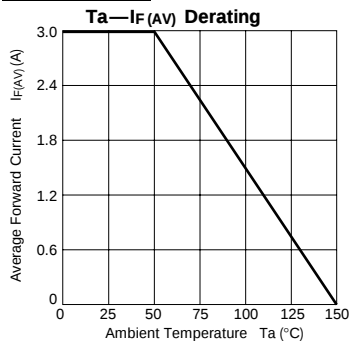


# Ultra-Fast-Recovery Rectifier Diodes

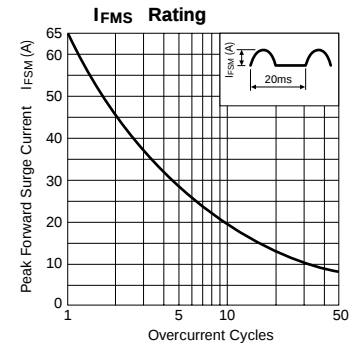
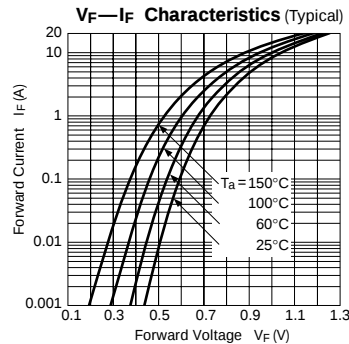
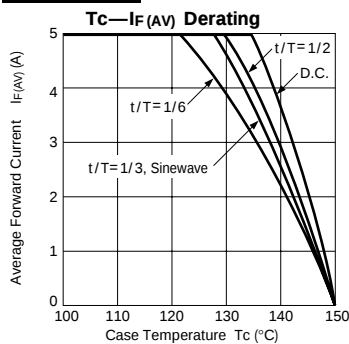
## FMG-G26S



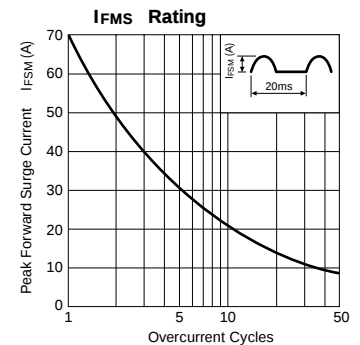
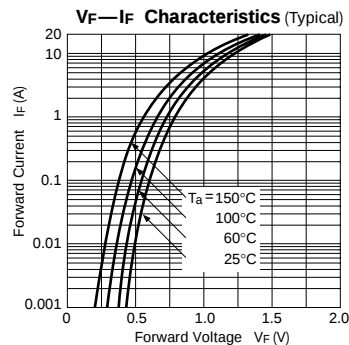
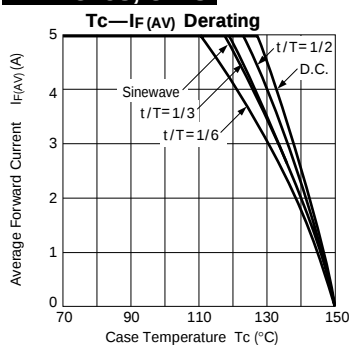
## FMG-G2CS



## FML-G12S



## FML-G13S, G14S



## FML-G16S

