

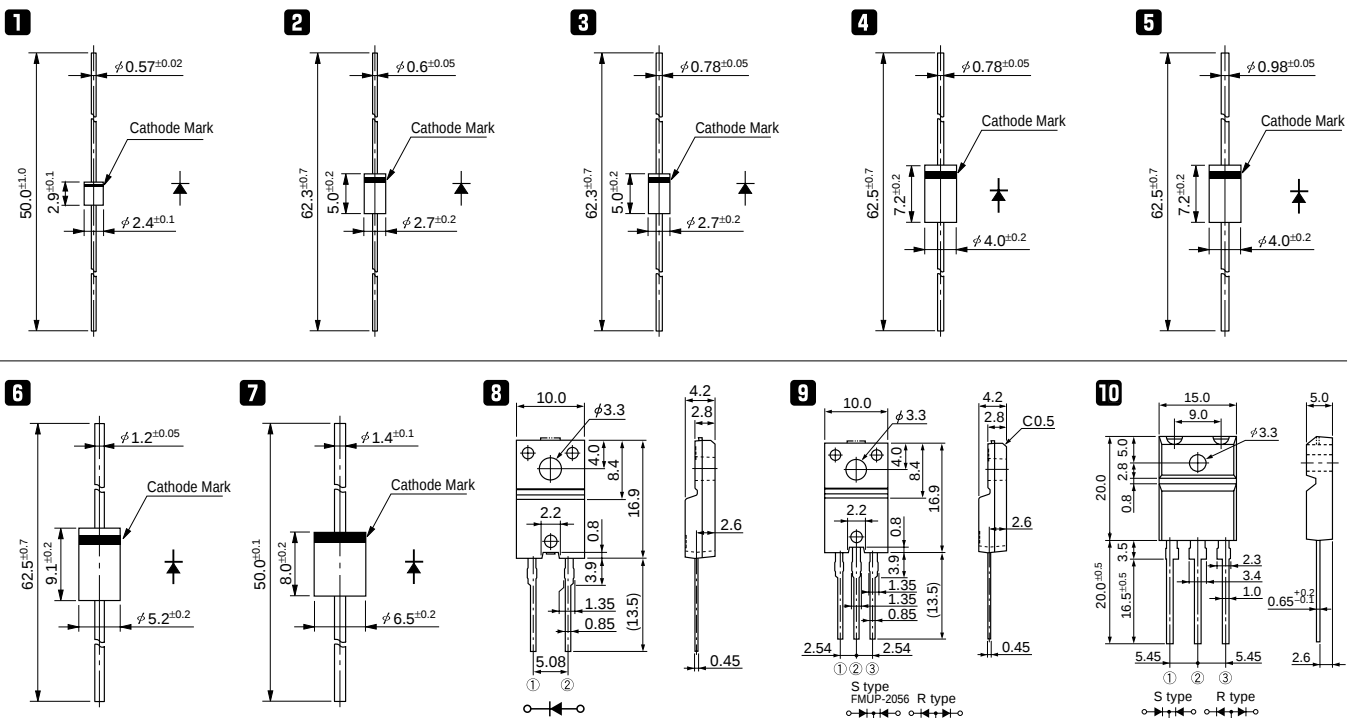
# Fast-Recovery Rectifier Diodes 600V

trr ①: I<sub>F</sub>/I<sub>R</sub> (=I<sub>F</sub>) 90% Recovery Point  
(ex. I<sub>F</sub>/I<sub>R</sub> = 100mA/100mA 90% Recovery Point)  
trr ②: I<sub>F</sub>/I<sub>R</sub> (=2 I<sub>F</sub>) 75% Recovery Point  
(ex. I<sub>F</sub>/I<sub>R</sub> = 100mA/200mA 75% Recovery Point)

| V <sub>RM</sub><br>(V) | Package    | Part Number | I <sub>F</sub> (A)<br>( ) is with<br>Heatsink | I <sub>FSM</sub><br>(A)<br>50Hz<br>Half-cycle Sinewave<br>Single Shot | 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)<br>V <sub>R</sub> =V <sub>RM</sub><br>max | I <sub>R</sub> (H)<br>(μA)<br>V <sub>R</sub> =V <sub>RM</sub><br>max | T <sub>a</sub><br>(°C) | t <sub>rr</sub> ①<br>(μs)<br>I <sub>F</sub> /I <sub>FP</sub><br>(mA) | t <sub>rr</sub> ②<br>(μs)<br>I <sub>F</sub> /I <sub>FP</sub><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 |    |
|------------------------|------------|-------------|-----------------------------------------------|-----------------------------------------------------------------------|------------------------|--------------|------------------------------|-----------------------|------------------------------------------------------------------|----------------------------------------------------------------------|------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------|-------------|-------------|------------------------------------------------|----|
| 600                    | Axial      | EU01A       | 0.25                                          | 15                                                                    | -40 to +150            | 2.5          | 0.25                         | 10                    | 150                                                              | 100                                                                  | 0.4                    | 10/10                                                                | 0.18                                                                 | 10/20                                                    | 20          | 0.2         | 2                                              | 55 |
|                        |            | EU 1A       | 0.25                                          | 15                                                                    | -40 to +150            | 2.5          | 0.25                         | 10                    | 150                                                              | 100                                                                  | 0.4                    | 10/10                                                                | 0.18                                                                 | 10/20                                                    | 17          | 0.3         | 1                                              | 56 |
|                        |            | RU 1A       | 0.25                                          | 15                                                                    | -40 to +150            | 2.5          | 0.25                         | 10                    | 200                                                              | 100                                                                  | 0.4                    | 10/10                                                                | 0.18                                                                 | 10/20                                                    | 15          | 0.4         | 4                                              | 58 |
|                        |            | AU01A       | 0.5                                           | 15                                                                    | -40 to +150            | 1.7          | 0.5                          | 10                    | 150                                                              | 100                                                                  | 0.4                    | 10/10                                                                | 0.18                                                                 | 10/20                                                    | 22          | 0.13        | 1                                              | 55 |
|                        |            | AS01A       | 0.6                                           | 20                                                                    | -40 to +150            | 1.5          | 0.6                          | 10                    | 50                                                               | 100                                                                  | 1.5                    | 10/10                                                                | 0.6                                                                  | 10/20                                                    | 22          | 0.13        | 1                                              | 55 |
|                        |            | EH 1A       | 0.6                                           | 30                                                                    | -40 to +150            | 1.35         | 0.6                          | 10                    | 200                                                              | 150                                                                  | 4                      | 10/10                                                                | 1.3                                                                  | 10/20                                                    | 17          | 0.3         | 3                                              | 56 |
|                        |            | RF 1A       | 0.6                                           | 15                                                                    | -40 to +150            | 2.0          | 0.6                          | 10                    | 200                                                              | 100                                                                  | 0.4                    | 10/10                                                                | 0.18                                                                 | 10/20                                                    | 15          | 0.4         | 4                                              | 57 |
|                        |            | RH 1A       | 0.6                                           | 35                                                                    | -40 to +150            | 1.3          | 0.6                          | 5                     | 70                                                               | 150                                                                  | 4                      | 10/10                                                                | 1.3                                                                  | 10/20                                                    | 15          | 0.4         | 4                                              | 57 |
|                        |            | ES 1A       | 0.7                                           | 30                                                                    | -40 to +150            | 2.5          | 0.8                          | 10                    | 200                                                              | 100                                                                  | 1.5                    | 10/10                                                                | 0.6                                                                  | 10/20                                                    | 20          | 0.2         | 2                                              | 56 |
|                        |            | ES01A       | 0.7                                           | 30                                                                    | -40 to +150            | 2.5          | 0.8                          | 10                    | 200                                                              | 100                                                                  | 1.5                    | 10/10                                                                | 0.6                                                                  | 10/20                                                    | 20          | 0.2         | 2                                              | 55 |
|                        |            | RS 1A       | 0.7                                           | 30                                                                    | -40 to +150            | 2.5          | 0.8                          | 10                    | 200                                                              | 100                                                                  | 1.5                    | 10/10                                                                | 0.6                                                                  | 10/20                                                    | 20          | 0.4         | 4                                              | 57 |
|                        |            | AU02A       | 0.8                                           | 25                                                                    | -40 to +150            | 1.3          | 0.8                          | 10                    | 250                                                              | 100                                                                  | 0.4                    | 10/10                                                                | 0.18                                                                 | 10/20                                                    | 22          | 0.13        | 1                                              | 55 |
|                        |            | EU02A       | 1.0                                           | 15                                                                    | -40 to +150            | 1.4          | 1.0                          | 10                    | 300                                                              | 100                                                                  | 0.4                    | 10/10                                                                | 0.18                                                                 | 10/20                                                    | 20          | 0.2         | 2                                              | 56 |
|                        |            | EU 2A       | 1.0                                           | 15                                                                    | -40 to +150            | 1.4          | 1.0                          | 10                    | 300                                                              | 100                                                                  | 0.4                    | 10/10                                                                | 0.18                                                                 | 10/20                                                    | 17          | 0.3         | 3                                              | 56 |
|                        |            | RU 2        | 1.0                                           | 20                                                                    | -40 to +150            | 1.5          | 1.0                          | 10                    | 300                                                              | 100                                                                  | 0.4                    | 10/10                                                                | 0.18                                                                 | 10/20                                                    | 15          | 0.4         | 4                                              | 58 |
|                        |            | RU 2AM      | 1.1                                           | 20                                                                    | -40 to +150            | 1.2          | 1.1                          | 10                    | 300                                                              | 100                                                                  | 0.4                    | 10/10                                                                | 0.18                                                                 | 10/20                                                    | 15          | 0.4         | 4                                              | 58 |
|                        |            | RU 20A      | 1.5                                           | 50                                                                    | -40 to +150            | 1.1          | 1.5                          | 10                    | 350                                                              | 100                                                                  | 0.4                    | 10/10                                                                | 0.18                                                                 | 10/20                                                    | 15          | 0.4         | 4                                              | 58 |
|                        |            | RU 3A       | 1.5                                           | 20                                                                    | -40 to +150            | 1.5          | 1.5                          | 10                    | 400                                                              | 100                                                                  | 0.4                    | 10/10                                                                | 0.18                                                                 | 10/20                                                    | 12          | 0.6         | 5                                              | 59 |
|                        |            | RU 3AM      | 1.5                                           | 50                                                                    | -40 to +150            | 1.1          | 1.5                          | 10                    | 350                                                              | 100                                                                  | 0.4                    | 10/10                                                                | 0.18                                                                 | 10/20                                                    | 12          | 0.6         | 5                                              | 59 |
|                        |            | RU 30A      | 2.0                                           | 200                                                                   | -40 to +150            | 0.95         | 2.0                          | 10                    | 300                                                              | 100                                                                  | 0.4                    | 100/100                                                              | 0.18                                                                 | 100/200                                                  | 10          | 1.0         | 6                                              | 59 |
|                        |            | RU 31A      | 3.0                                           | 150                                                                   | -40 to +150            | 1.2          | 3.0                          | 50                    | 500                                                              | 100                                                                  | 0.4                    | 100/100                                                              | 0.18                                                                 | 100/200                                                  | 10          | 1.0         | 6                                              | 59 |
|                        |            | RU 4A       | 1.5 (3.0)                                     | 50                                                                    | -40 to +150            | 1.5          | 3.0                          | 10                    | 300                                                              | 100                                                                  | 0.4                    | 10/10                                                                | 0.18                                                                 | 10/20                                                    | 8           | 1.2         | 7                                              | 60 |
|                        |            | RU 4AM      | 2.0 (3.5)                                     | 70                                                                    | -40 to +150            | 1.3          | 3.5                          | 10                    | 300                                                              | 100                                                                  | 0.4                    | 100/100                                                              | 0.18                                                                 | 100/200                                                  | 8           | 1.2         | 7                                              | 60 |
|                        | Frame-2Pin | FMUP-1056   | 5.0                                           | 30                                                                    | -40 to +150            | 1.25         | 5.0                          | 50                    | 500                                                              | 100                                                                  | 0.4                    | 100/100                                                              | 0.18                                                                 | 100/200                                                  | 4.0         | 2.1         | 8                                              | 61 |
|                        |            | FMUP-1106   | 10                                            | 40                                                                    | -40 to +150            | 1.35         | 10                           | 50                    | 500                                                              | 100                                                                  | 0.4                    | 100/100                                                              | 0.18                                                                 | 100/200                                                  | 4.0         | 2.1         | 8                                              | 61 |
|                        | Center-tap | FMU-16S, R  | 5.0                                           | 30                                                                    | -40 to +150            | 1.5          | 2.5                          | 50                    | 500                                                              | 100                                                                  | 0.4                    | 100/100                                                              | 0.18                                                                 | 100/200                                                  | 4.0         | 2.1         | 9                                              | 61 |
|                        |            | FMUP-2056★  | 5.0                                           | 30                                                                    | -40 to +150            | 1.5          | 2.5                          | 50                    | 500                                                              | 100 (T <sub>J</sub> )                                                | 0.4                    | 100/100                                                              | 0.18                                                                 | 100/200                                                  | 4.0         | 2.1         | 9                                              | 61 |
|                        |            | FMU-26S, R  | 10                                            | 40                                                                    | -40 to +150            | 1.5          | 5.0                          | 50                    | 500                                                              | 100                                                                  | 0.4                    | 100/100                                                              | 0.18                                                                 | 100/200                                                  | 4.0         | 2.1         | 9                                              | 62 |
|                        |            | FMU-36S, R  | 20                                            | 80                                                                    | -40 to +150            | 1.5          | 10                           | 50                    | 500                                                              | 100                                                                  | 0.4                    | 100/100                                                              | 0.18                                                                 | 100/200                                                  | 2.0         | 5.5         | 10                                             | 62 |

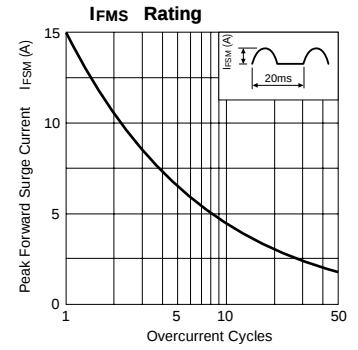
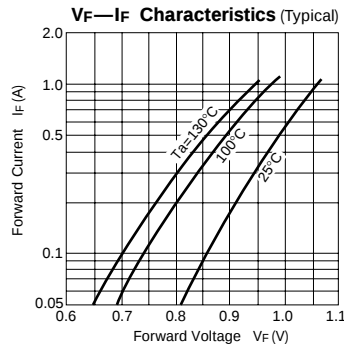
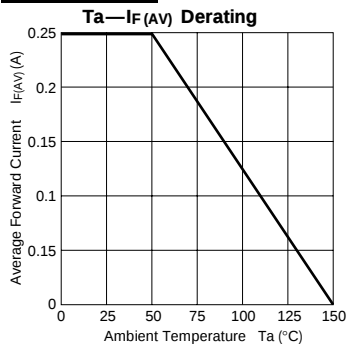
★: Under development

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

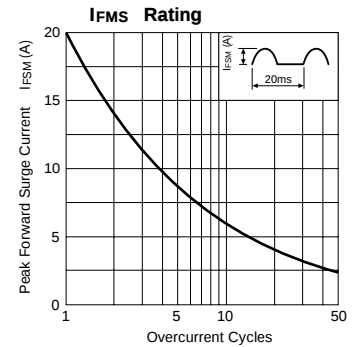
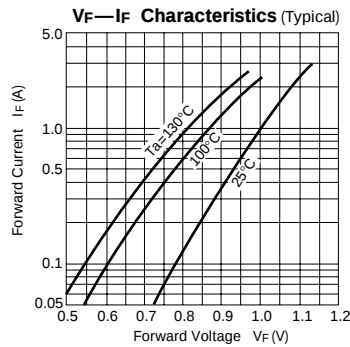
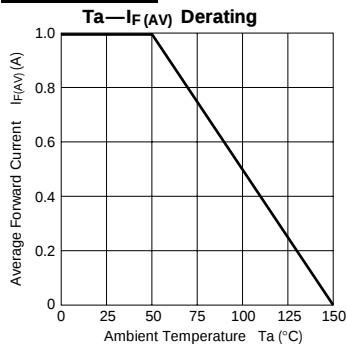


# Fast-Recovery Rectifier Diodes

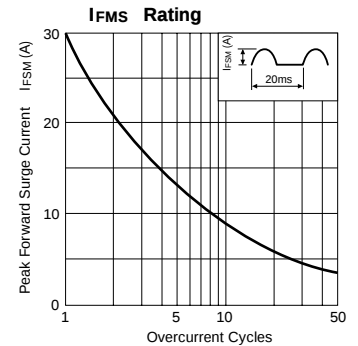
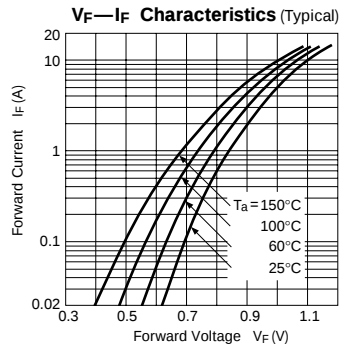
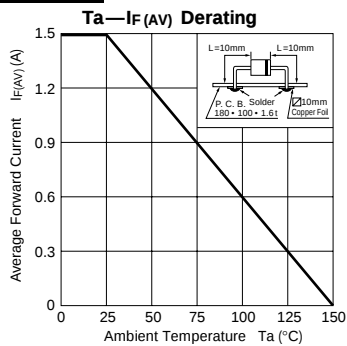
## RU 1 series



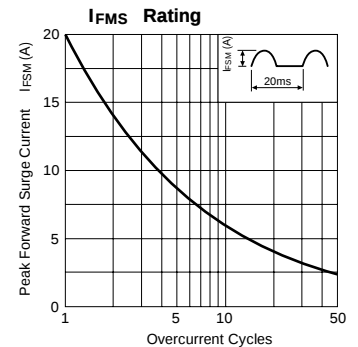
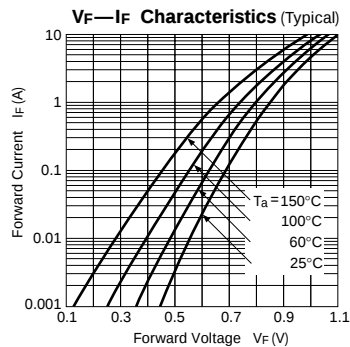
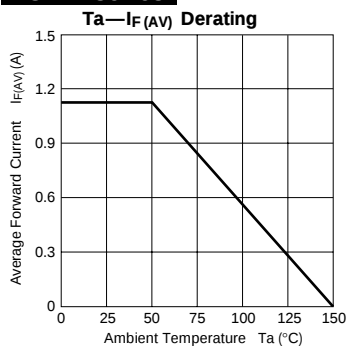
## RU 2 series



## RU 2YX



## RU 2M series



## RU 20A

