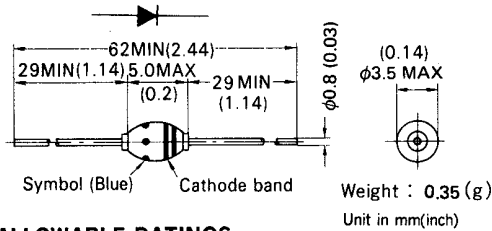


# V19

VRRM : 100V~600V  
 IF(AV) : 1.0A  
 trr : 0.2μs



| Type       | Color of cathode band and symbol |
|------------|----------------------------------|
| V19B(100V) | Yellow                           |
| V19C(200V) | Black                            |
| V19E(400V) | Blue                             |
| V19G(600V) | Red                              |

## ■ MAXIMUM ALLOWABLE RATINGS

| Items                                  | Type               |                     | V19B  | V19C       | V19E       | V19G |
|--|--------------------|---------------------|---|------------|------------|------|
|  | EIAJ No.           |                     | 1SR119-100  | 1SR119-200 | 1SR119-400 |      |
| Repetitive Peak Reverse Voltage        | V <sub>RRM</sub>   | V                   | 100   | 200        | 400        | 600  |
| Non-Repetitive Peak Reverse Voltage    | V <sub>RSM</sub>   | V                   | 200   | 300        | 500        | 800  |
| Average Forward Current                | I <sub>F(AV)</sub> | A                   | 1.0 (Single-phase half sine wave 180° conduction)<br>T <sub>L</sub> =80°C, Lead length=10mm |            |            |      |
| Surge (Non-Repetitive) Forward Current | I <sub>FSM</sub>   | A                   | 30 (Without PIV, 10msec conduction, T <sub>J</sub> =150°C start)                            |            |            |      |
| I <sup>2</sup> t Limit Value           | I <sup>2</sup> t   | A <sup>2</sup> sec. | 3.6 (Time=2~10msec, I=RMS Value)  |            |            |      |
| Operating Junction Temperature         | T <sub>J</sub>     | °C                  | -65~+150  |            |            |      |
| Storage Temperature                    | T <sub>stg</sub>   | °C                  | -65~+150  |            |            |      |

\* LEAD MOUNTING: LEAD TEMPERATURE 300°C MAX. TO 3.2mm FROM BODY FOR 5SEC. MAX.

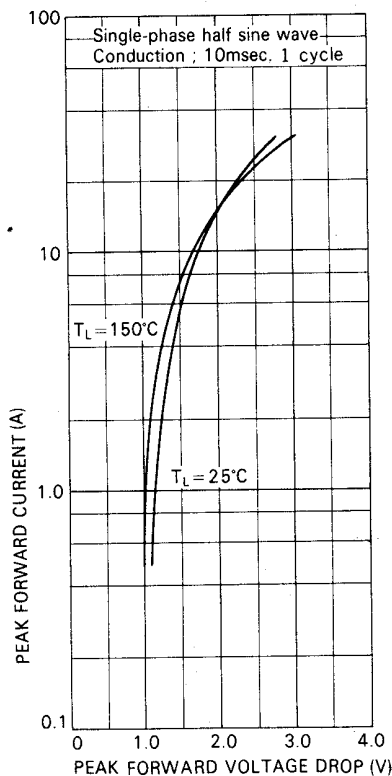
リードはんだ付け限界: はんだ温度300°C以下。ボディから3.2mmまで5秒以内。

\*\* MECHANICAL STRENGTH: BENDING 90°×2 Cycles, or 180°×1 Cycle, TENSILE 2kg, TWIST 90°×1 Cycle.  
 機械的強度: リード曲げ 90° 2回, 又は 180° 1回, 引張り 2kg, ねじり 90° 1回。

## ■ CHARACTERISTICS (T<sub>L</sub>=25°C)

| Items                          | Symbols              | Units | Min. | Typ. | Max. | Test Conditions   |
|--------------------------------|----------------------|-------|------|------|------|---|
| Peak Reverse Current           | I <sub>RRM</sub>     | μA    | —    | 2.0  | 10   | All class, Rated V <sub>RRM</sub>                           |
| Peak Forward Voltage           | V <sub>FM</sub>      | V     | —    | —    | 1.2  | I <sub>FM</sub> =1.0Ap. Single-phase half sine wave 1 cycle |
| Reverse Recovery Time          | t <sub>rr</sub>      | μsec. | —    | —    | 0.2  | I <sub>F</sub> =2mA, V <sub>R</sub> =-15V                   |
| Steady State Thermal Impedance | R <sub>th(j-a)</sub> | °C/W  | —    | —    | 80   | Lead length=10mm  |
|                                | R <sub>th(j-l)</sub> |       |      |      | 50   |   |

### 順特性 FORWARD CHARACTERISTICS



### 平均順損失 MAX. AVERAGE FORWARD POWER DISSIPATION (RESISTIVE OR INDUCTIVE LOAD)

