

# TYPE V03

UP TO 600V 2.0A(RMS) DIODE

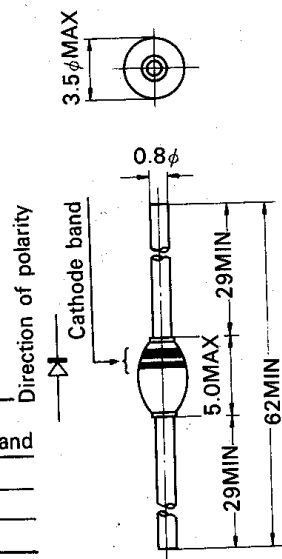
## FEATURES

- This diode is designed to serve as universal type optimum for use in a variety of electronic devices including control circuits, communication equipment and household electric appliances.
- Compact, lightweight structure with a glass encapsulation dispenses with insulation work and provides great convenience for build-in wiring.
- Because of strict quality control and steady mass production, uniform characteristics and remarkably high reliability are attained.

## 特 長

- この製品は制御回路、通信機、家電品など各種電子装置に最適な万能形のダイオードです。
- 構造は小形、軽量で、しかもボディはガラスですから絶縁は不要であり、組み込み配線にたいへん便利です。
- 厳密な品質管理と安定した量産を行なっていますので、特性は均一であり、きわめて信頼度の高いダイオードです。

## OUTLINE DRAWING



| Type       | Color of cathode band |
|------------|-----------------------|
| V03C(200V) | Black                 |
| V03E(400V) | Blue                  |
| V03G(600V) | Red                   |

## MAXIMUM ALLOWABLE RATINGS

| Hitachi Type                        |           |                    | V03C                                                                    | V03E     | V03G     |
|-------------------------------------|-----------|--------------------|-------------------------------------------------------------------------|----------|----------|
| EIAJ No.                            |           |                    | 1 S 1948                                                                | 1 S 1949 | 1 S 1950 |
| Repetitive Peak Reverse Voltage     | $V_{RRM}$ | V                  | 200                                                                     | 400      | 600      |
| Non-repetitive Peak Reverse Voltage | $V_{RSM}$ | V                  | 300                                                                     | 500      | 800      |
| Average Forward Current             | $I_o$     | A                  | 1.3 (Single-phase, half-wave 180° conduction; ambient temperature 25°C) |          |          |
| Peak One-cycle Surge Current        | $I_{TSM}$ | A                  | 30 (10msec conduction, sine half-wave 1 cycle)                          |          |          |
| $I^2t$ Limit Value                  | $I^2t$    | A <sup>2</sup> sec | 4.5 (Time=2~10msec, I=RMS value)                                        |          |          |
| Operating Junction Temperature      | $T_j$     | °C                 | -40~+165                                                                |          |          |
| Storage Temperature                 | $T_{stg}$ | °C                 | -40~+165                                                                |          |          |
| Weight                              |           | g                  | 0.35                                                                    |          |          |

## CHARACTERISTICS

| Items                         | Symbols  | Units | Ratings                                                                                    |
|-------------------------------|----------|-------|--------------------------------------------------------------------------------------------|
| Maximum Reverse Current       | $I_{RM}$ |       | —                                                                                          |
| Maximum Forward Voltage Drop  | $V_{FM}$ | V     | 1.4 (Single-phase, half-wave peak value 4A; conduction angle 180° $T_j=25^\circ\text{C}$ ) |
| Typical Reverse Recovery Time | $t_{rr}$ |       | —                                                                                          |