

# TYPE V03

UP TO 600V 2.0A(RMS) DIODE

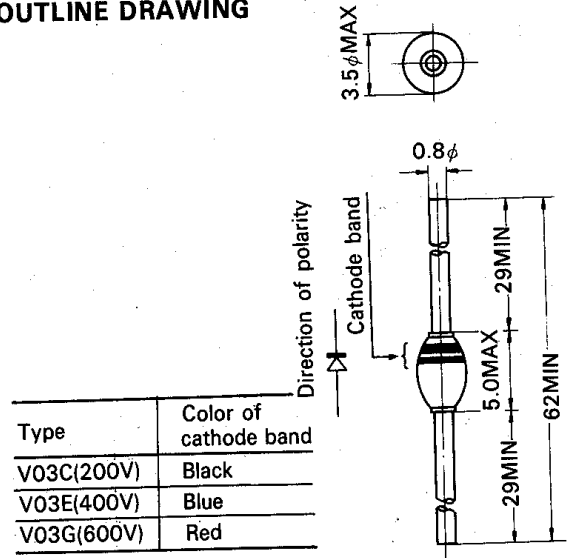
## FEATURES

- 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



## MAXIMUM ALLOWABLE RATINGS

Items	Hitachi Type		V03C	V03E	V03G
	Symbols	Units	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	$t_{rr}$		—