

TYPE V09

UP TO 600V 1.3A(RMS)
HIGH SPEED TYPE DIODE

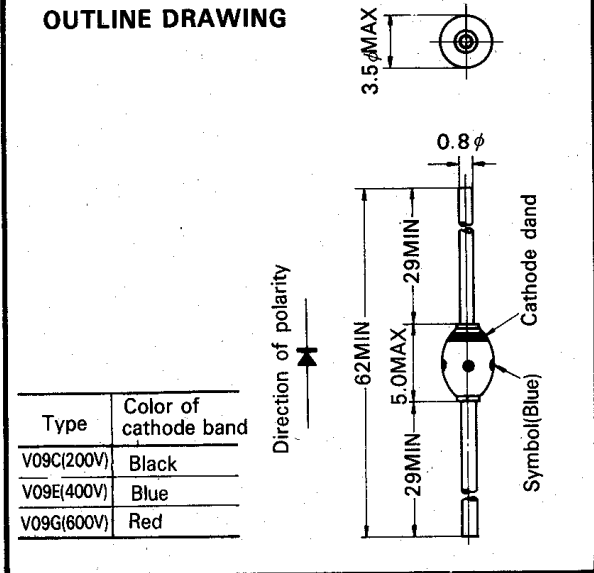
FEATURES

- Developed for switching applications, this device has a reverse recovery time of $0.5\mu\text{sec}$. Optimum for use in high-frequency circuits such as television horizontal deflection circuits.
- Structure with the glass encapsulation that gained high reputation in V03 and V06 is very convenient for build-in wiring.
- Due to strict quality control and steady mass production, this diode offers uniform characteristics and remarkably high reliability.

特長

- この製品は逆回復時間を、 $0.5\mu\text{sec}$ に押えスイッチング用として開発した素子で、テレビの水平偏向回路等、高周波回路に最適です。
- 構造はV03、V06で好評を博しましたガラスボディですから、組込配線に大変便利です。
- 厳密な品質管理と安定した量産を行なっておりますので、特性は均一であり、極めて信頼度の高いダイオードです。

OUTLINE DRAWING



MAXIMUM ALLOWABLE RATINGS

Items	Symbols	Units	Hitachi Type			
			V09C	V09E	V09G	
			EIAJ No.	1S 2244	1S 2245	1S 2246
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	0.8 (Single-phase, half-wave 180° conduction ambient temperature 40°C)			
Peak One-cycle Surge Current	I_{TSM}	A	25 (10msec conduction, sine half-wave 1 cycle)			
I^2t Limit Value	I^2t	$A^2\text{sec}$	2.65 (Time = 1~10msec. I = RMS value)			
Operating Temperature	T_j	°C	-40 ~ +165			
Storage Temperature	T_{sig}	°C	-40 ~ +165			
Weight		g	0.35			

CHARACTERISTICS

Items	Symbols	Units	Rating
Maximum Reverse Current	I_{RM}		—
Maximum Forward Voltage Drop	V_{FM}	V	1.94 (Single-phase, half-wave peak value 2.5A, conduction angle 180°, $T_j=25^\circ\text{C}$)
Reverse Recovery Time	t_{rr}	μsec	0.5 ($T_j=25^\circ\text{C}$, Measuring conditions are based on Test circuit)
Thermal Resistance	R_{th}	°C/W	— (Junction to Air)