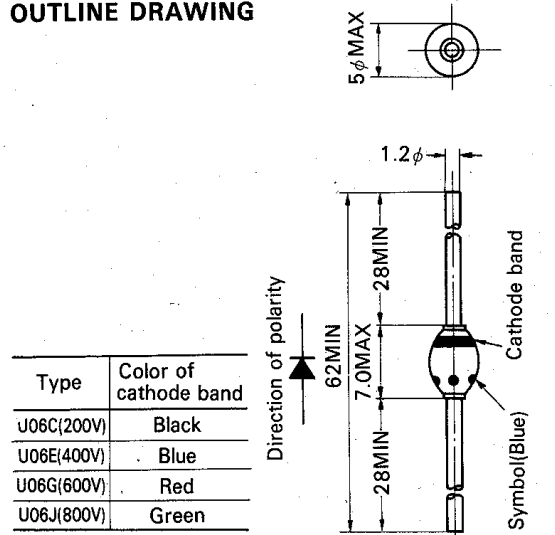


FEATURES

- Developed for switching applications, this device has a reverse recovery time of $0.6\mu\text{sec}$. Optimum for use in high-frequency circuits such as television horizontal deflection circuits.
- Employing Hitachi's unique glass encapsulation that gained high repute in V03 and V06, U06 has a dual heat sink construction to achieve a small and lightweight structure with an increased current capacity.
- Silicon surface passivation is effected directly with glass so as to attain excellent proofness against moisture and heat.

OUTLINE DRAWING



特長

- この製品は逆回復時間を、 $0.6\mu\text{sec}$ 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で好評の日立独自のガラスボディを採用、両面接着構造により小形、軽量で電流容量が向上しています。
- シリコンの表面安定を直接ガラスにて行っておりますので、耐湿性、耐熱性にすぐれています。

MAXIMUM ALLOWABLE RATINGS

Items	Hitachi Type		U06C	U06E	U06G	U06J
	Symbols	Units	1S 2596	1S 2597	1S 2598	1S 2599
Repetitive Peak Reverse Voltage	V_{RRM}	V	200	400	600	800
Non-repetitive Peak Reverse Voltage	V_{RSM}	V	300	500	800	1,000
Average Forward Current	I_o	A	2.0 (Single-phase, half-wave 180° conduction ambient temperature 40°C resistive load)			
Peak One-cycle Surge Current	I_{TSM}	A	100 (10msec conduction, sine half-wave 1 cycle, no load)			
			80 (10msec conduction, sine half-wave 1 cycle, full load)			
I^2t Limit Value	I^2t	$A^2\text{sec}$	25 (Time=2~10msec, I=RMS value)			
Operating Temperature	T_j	°C	-40 ~ +150			
Storage Temperature	T_{stg}	°C	-40 ~ +150			
Weight		g	1.0			

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 6.0A, conduction angle 180°, T_j : 25°C)
Reverse Recovery Time	t_{rr}	μsec	0.6 (T_j : 25°C, Measuring conditions are based on test circuit)
Thermal Resistance	R_{th}	°C/W	— (Junction to Air)