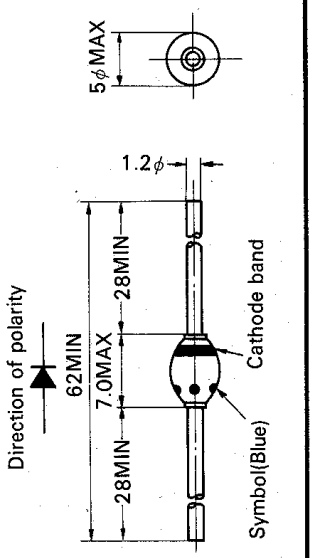
TYPE U06

UP TO 800V 3.2A(RMS)
HIGH SPEED TYPE DIODE

■FEATURES

- Developed for switching applications, this device has a reverse recovery time of 0.6μsec. 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



Type	Color of cathode band
U06C(200V)	Black
U06E(400V)	Blue
U06G(600V)	Red
U06J(800V)	Green

■特　長

- この製品は逆回復時間を，0.6μsec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	Symbols	Units	U06C	U06E	U06G	U06J
Hitachi Type			U06C	U06E	U06G	U06J
EIAJ No.			1S2596	1S2597	1S2598	1S2599
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	Io	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^2sec	25 (Time=2～10msec, I=RMS value)			
Operating Temperature	T_j	℃	−40～+150			
Storage Temperature	T_{stg}	℃	−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℃)
Reverse Recovery Time	t_{rr}	μsec	0.6 (T_j: 25℃, Measuring conditions are based on test circuit)
Thermal Resistance	R_{th}	℃/W	—— (Junction to Air)