

# TYPE U05

UP TO 800V 4.0A(RMS) DIODE

## FEATURES

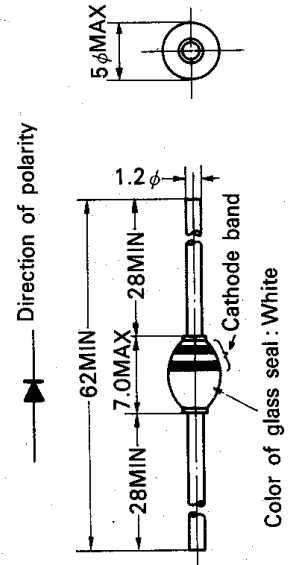
- Optimum to serve as power supply rectifier for general apparatus, especially for large-sized color television sets, video tape recorders and stereo equipments.
- Employing Hitachi's unique glass encapsulation that gained high reputation in V03 and V06, U05 has a dual heat sink construction to achieve 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.

## 特長

- この製品は各種民生機器の電源整流用として、特に大型カラーTV、VTR、ステレオ用に最適です。
- 構造はV03/V06で好評の日立独特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なっていますので、耐湿性、耐熱性にすぐれています。

## OUTLINE DRAWING

Type	Color of cathode band
U05B(100V)	Yellow
U05C(200V)	Black
U05E(400V)	Blue
U05G(600V)	Red
U05J(800V)	Purple



## MAXIMUM ALLOWABLE RATINGS

Items	Hitachi Type		U05B	U05C	U05E	U05G	U05J
	Symbols	Units	1 S 2455	1 S 2456	1 S 2457	1 S 2458	1 S 2459
Repetitive Peak Reverse Voltage	$V_{RRM}$	V	100	200	400	600	800
Non-repetitive Peak Reverse Voltage	$V_{RSM}$	V	200	300	500	800	1,000
Average Forward Current	$I_o$	A	2.5 (Single-phase sine half-wave 180° conduction $T_a=40^\circ\text{C}$ resistance 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	$I^2t$	$\text{A}^2\text{sec}$	25 (Time = 2~10msec, I=RMS value)				
Operating Junction Temperature	$T_j$	$^\circ\text{C}$	-40~+165				
Storage Temperature	$T_{stg}$	$^\circ\text{C}$	-40~+165				
Weight		g	1.0				

## CHARACTERISTICS

Items	Symbols	Units	Rating
Maximum Reverse Current	$I_{RM}$		
Maximum Forward Voltage Drop	$V_{FM}$	V	1.3 (Single-phase, half-wave peak 7.5A, conduction angle 180°, $T_j=25^\circ\text{C}$ )
Typical Reverse Recovery Time	$t_{rr}$	$\mu\text{s}$	3.0 ( $T_j=25^\circ\text{C}$ , Measuring conditions are based on test circuit)