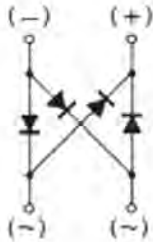


Silicon Diffused Type Rectifier Stack  
Reverse Voltage 100 to 600 Volts Forward Current 0.5 Ampere

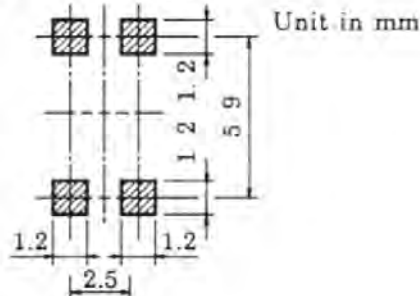
## Features

- ◆ Single phase bridge rectifier applications.
  - Repetitive peak reverse voltage :  $V_{RRM}=100\sim600V$
  - Average output rectified current :  $I_o=0.5A$  ( $T_a=30^{\circ}C$ )

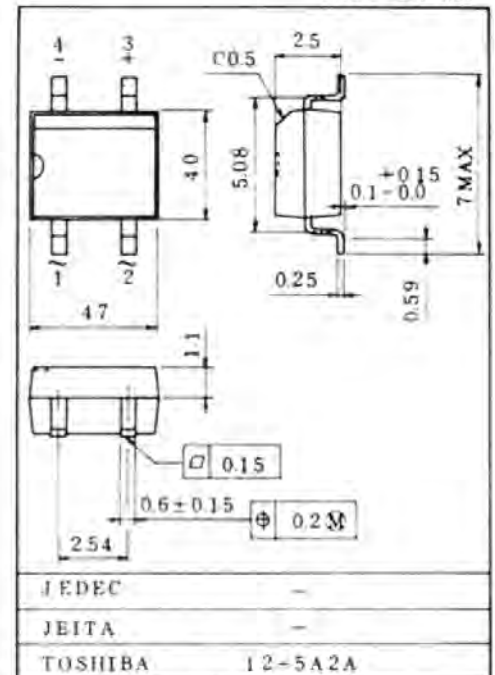
### POLARITY



### Standard Soldering Pad



Unit in mm



Weight : 0.13g

## Maximum Ratings

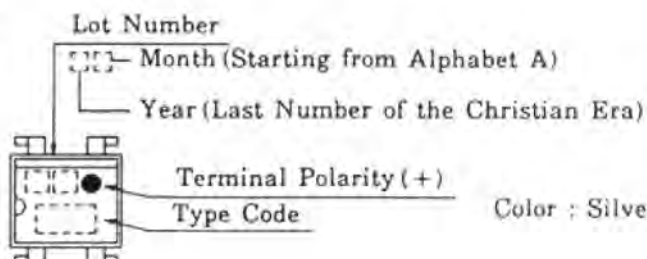
| Characteristic                                         | Symbol    | Ratings                | Unit        |
|--------------------------------------------------------|-----------|------------------------|-------------|
| Repetitive peak reverse voltage                        | $V_{RRM}$ | 100                    | Volts       |
|                                                        |           | 400                    |             |
|                                                        |           | 600                    |             |
| Average output rectified current ( $T_a=30^{\circ}C$ ) | $I_o$     | 0.5<br>0.8 *           | Amp         |
| Peak one cycle surge forward current (Non Repetitive)  | $I_{TSM}$ | 30 (50Hz)<br>33 (60Hz) | Amps        |
| Junction temperature                                   | $T_j$     | -40 to +150            | $^{\circ}C$ |
| Storage temperature range                              | $T_{STG}$ | -40 to +150            | $^{\circ}C$ |

## Electrical Characteristics ( $T_a=25^{\circ}C$ )

| Characteristic                           | Symbol            | Test condition         | Min. | Typ. | Max.        | Unit          |
|------------------------------------------|-------------------|------------------------|------|------|-------------|---------------|
| Peak forward voltage                     | $V_{FM}$          | $I_{FM}=0.4A$          | -    | -    | 1.0         | Volt          |
| Repetitive peak reverse current          | $I_{RRM}$         | $V_{RRM}=\text{Rated}$ | -    | -    | 10          | $\mu A$       |
| Thermal resistance (Junction to Ambient) | $R_{\theta(j-a)}$ | DC                     | -    | -    | 130<br>75 * | $^{\circ}C/W$ |

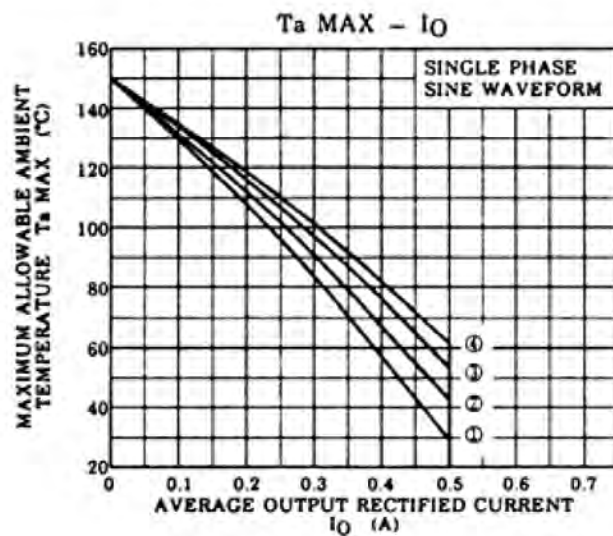
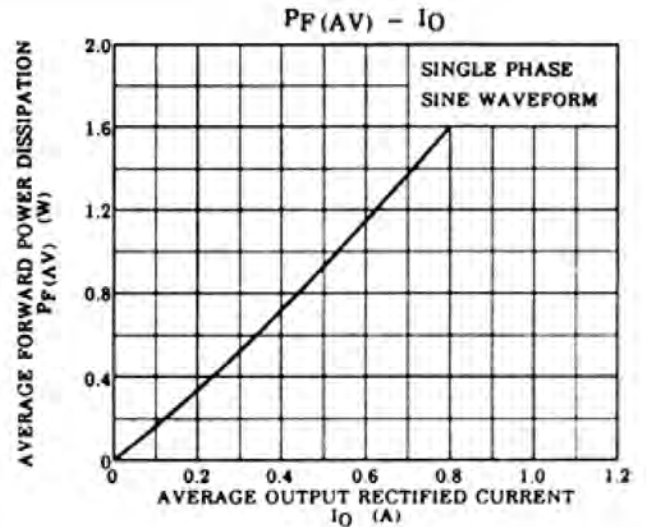
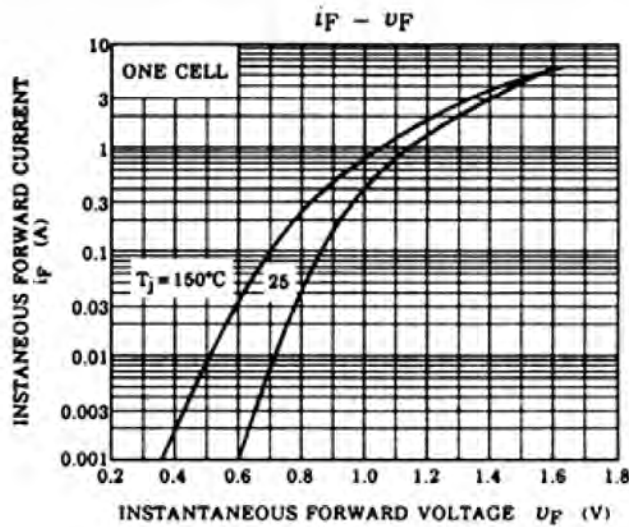
\* On alumina substrate.

### MARK



| CODE | TYPE     |
|------|----------|
| 5B   | U05B4B48 |
| 5G   | U05G4B48 |
| 5J   | U05J4B48 |

# RATINGS AND CHARACTERISTIC CURVES



- ① WITHOUT HEAT SINK
- ② SOLDER LAND  $2 \times 2\text{mm}$
- ③ SOLDER LAND  $5 \times 5\text{mm}$
- ④ SOLDER LAND  $7 \times 7\text{mm}$

■ x ■ : SOLDER LAND SIZE  
(ON GLASS-EPOXI SUBSTRATE)

