

## High Efficient Rectifier Diode

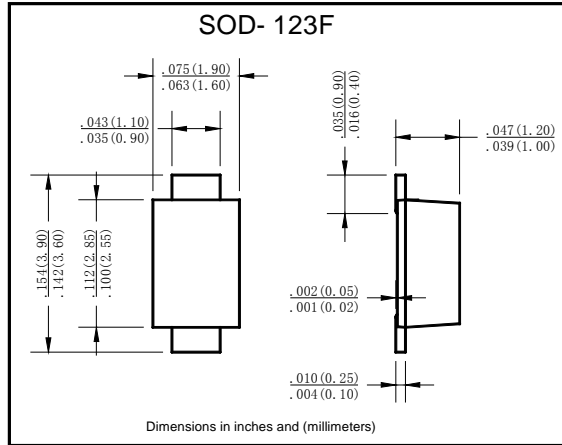
### ■ Features

- $I_o$  1.0A
- $V_{RRM}$  50V~1000V
- Glass passivated chip
- High surge forward current capability

### ■ Applications

- For general power supply  
single - phase rectifier

### ■ Outline Dimensions and Mark



### ■ Limiting Values (Absolute Maximum Rating)

| Item                                   | Symbol    | Unit             | Conditions   | H1         |     |     |     |     |     |      |
|--|-----------|------------------|--|------------|-----|-----|-----|-----|-----|------|
|  |           |                  |  | A          | B   | D   | G   | J   | K   | M    |
| Repetitive Peak Reverse Voltage        | $V_{RRM}$ | V                |  | 50         | 100 | 200 | 400 | 600 | 800 | 1000 |
| Average Rectified Output Current       | $I_o$     | A                | 60Hz One-way halfwave, R- load, $T_a=75^\circ\text{C}$ | 1.0        |     |     |     |     |     |      |
| Surge(Non- repetitive) Forward Current | $I_{FSM}$ | A                | 60Hz sine wave, 1 cycle, $T_j=25^\circ\text{C}$        | 30         |     |     |     |     |     |      |
| Storage Temperature                    | $T_{stg}$ | $^\circ\text{C}$ |  | -55 ~ +150 |     |     |     |     |     |      |
| Junction Temperature                   | $T_j$     | $^\circ\text{C}$ |  | -55 ~ +150 |     |     |     |     |     |      |

### ■ Electrical Characteristics ( $T_a=25^\circ\text{C}$ Unless otherwise specified)

| Item                          | Symbol           | Unit                      | Test Condition   | H1  |   |     |   |     |   |   |
|-------------------------------|------------------|---------------------------|--|-----|---|-----|---|-----|---|---|
|                               |                  |                           |  | A   | B | D   | G | J   | K | M |
| Peak Forward Voltage          | $V_{FM}$         | V                         | $I_{FM}=1.0\text{A}$                                     | 1.0 |   | 1.3 |   | 1.7 |   |   |
| Maximum reverse recovery time | $t_{rr}$         | ns                        | $I_F=0.5\text{A}, I_R=1.0\text{A}, I_{RRF}=0.25\text{A}$ | 50  |   |     |   | 75  |   |   |
| Peak Reverse Current          | $I_{RRM}$        | $\mu\text{A}$             | $V_{RM}=V_{RRM}, T_a=25^\circ\text{C}$                   | 5   |   |     |   |     |   |   |
| Thermal Resistance            | $R_{\theta J-L}$ | $^\circ\text{C}/\text{W}$ | Between junction and lead                                | 20  |   |     |   |     |   |   |

## ■ Characteristics( Typical)

