

## Fast Recovery Rectifier Diode

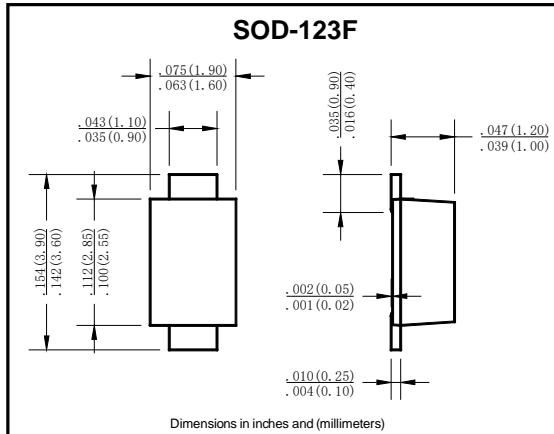
### ■ Features

- $I_o$  1.0A
- $V_{RRM}$  50V~1000V
- Glass passivated chip
- High surge forward current capability
- AEC-Q101 qualified

### ■ Applications

- For general power supply single-phase rectifier

### ■ Outline Dimensions and Mark

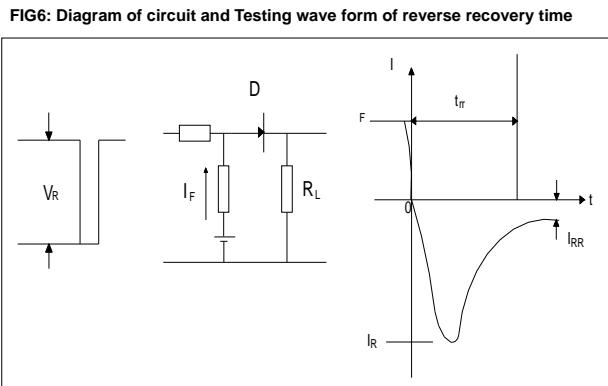
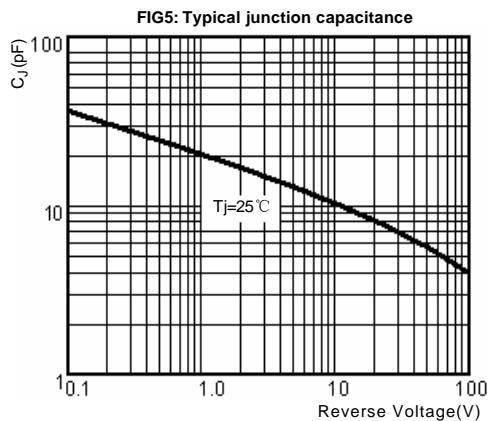
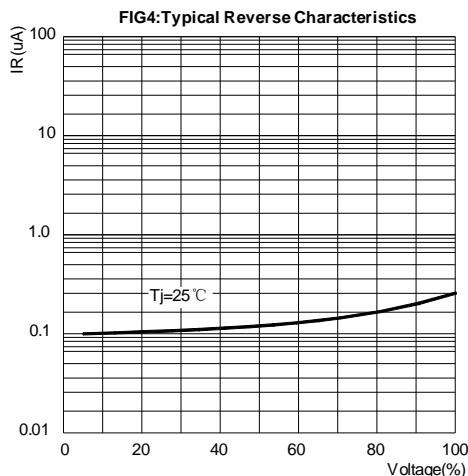
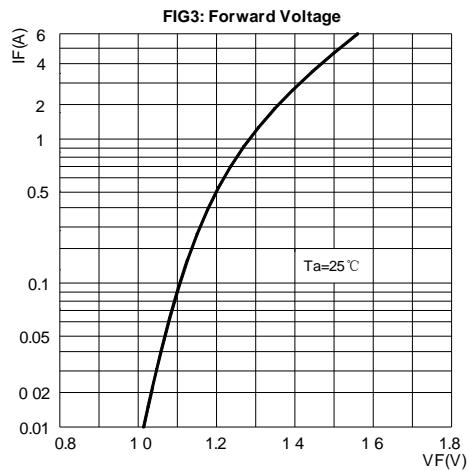
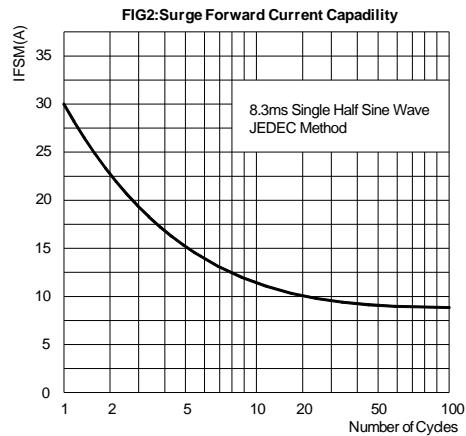
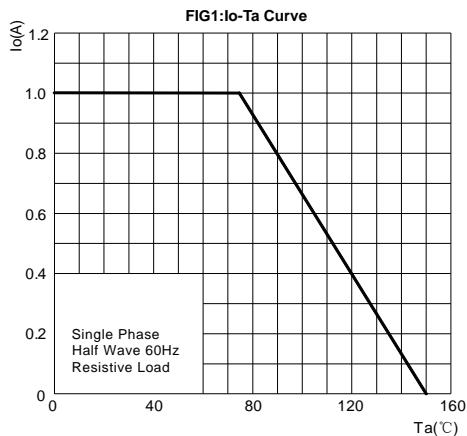


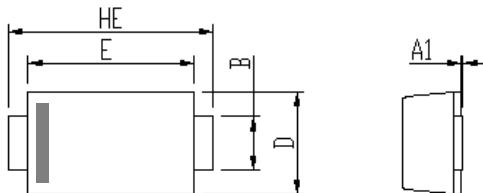
### ■ Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	F1							
				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 half-wave, R-load, $T_a=75^\circ\text{C}$								1.0
Surge(Nonrepetitive) 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

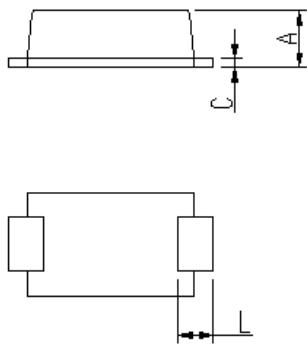
### ■ Electrical Characteristics ( $T_a=25^\circ\text{C}$ Unless otherwise specified)

Item	Symbol	Unit	Test Condition	F1							
				A	B	D	G	J	K	M	
Peak Forward Voltage	$V_{FM}$	V	$I_{FM}=1.0\text{A}$								1.3
Maximum reverse recovery time	$t_{rr}$	ns	$I_F=0.5\text{A}, I_R=1.0\text{A}, I_{RR}=0.25\text{A}$								150 250 500
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
Typical junction capacitance	$C_J$	p F	4.0 V, 1MHz								15

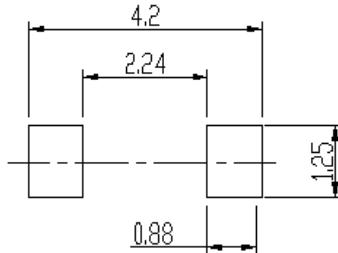
**■ Characteristics(Typical)**


**PACKAGE OUTLINE DIMENSIONS** (in millimeters)


DIM	Unit: mm		Unit: inch	
	MIN	MAX	MIN	MAX
A	1.0	1.2	0.035	0.043
A1	0	0.1	0.000	0.004
b	0.90	1.10	0.033	0.041
c	0.1	0.25	0.004	0.010
D	1.6	1.9	0.067	0.079
E	2.5	2.9	0.114	0.122
L	0.40	0.90	0.017	0.033
HE	3.6	3.9	0.138	0.154



Soldering footprint


**PACKING INFORMATION**
**Packing quantities:**

3000 pcs/Reel, 40 Reels/Box; 8mm Tape, 7" Reel

**Tape & Reel Specification**
