

**VOLTAGE RANGE: 400V**

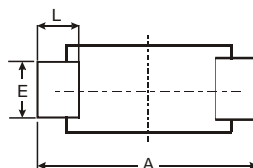
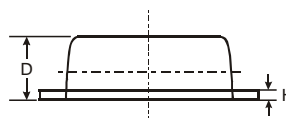
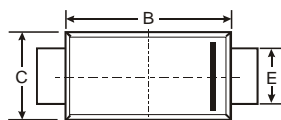
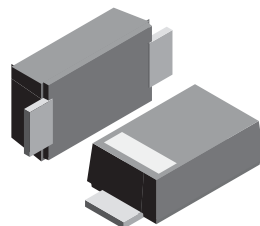
**CURRENT: 0.5A**

### Features

- Glass passivated device
- Ideal for surface mounted applications
- Low reverse leakage
- Metallurgically bonded construction
- High temperature soldering guaranteed:  
250°C/10 seconds, 0.375" (9.5mm) lead length,  
5 lbs. (2.3kg) tension

### Mechanical Data

- Case: SOD-123FL  
plastic body over passivated junction
- Terminals : Plated axial leads,
- solderable per MIL-STD-750, Method 2026
- Polarity : Color band denotes cathode end
- Mounting Position : Any
- Weight: 0.0007 ounce, 0.02 grams



SOD-123FL			
Dim	Min	Max	Typ
A	3.58	3.72	3.65
B	2.72	2.78	2.75
C	1.77	1.83	1.80
D	1.02	1.08	1.05
E	0.097	1.03	1.00
H	0.13	0.17	0.15
L	0.53	0.57	0.55
All Dimensions in mm			

### Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	Limits	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	400	V
Non-repetitive Peak Reverse Voltage	$V_{RSM}$	550	V
Average Rectified Forward Current 50Hz Half Sine Wave Resistive Load $T_a = 25^\circ\text{C}^{*1}$ $T_j = 107^\circ\text{C}$	$I_C$	0.38	A
		0.5	A
R.M.S. Forward Current	$I_{F(RMS)}$	0.785	A
Surge Forward Current 50Hz Half Sine Wave, 1 cycle, Non-repetitive	$I_{FSM}$		A
Operating Junction Temperature Range	$T_{jw}$	-40 ~ +150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-40 ~ +150	$^\circ\text{C}$

### Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Peak Reverse Current $T_j = 25^\circ\text{C}, V_{RM} = V_{RRM}$	$I_{RM}$	—	—	10	$\mu\text{A}$
Peak Forward Voltage $T_j = 25^\circ\text{C}, I_{FM} = 0.5\text{A}$	$V_{FM}$	—	—	1.1	V
Electrostatic Discharge $T_j = 25^\circ\text{C}, C = 150\text{pF}, R = 150\Omega^{*2}$	—	—	25	—	kV
Thermal Resistance Junction to Ambient Junction to Lead	$R_{th(j-a)}$	—	—	300	$^\circ\text{C}/\text{W}$
	$R_{th(j-l)}$	—	—	70	$^\circ\text{C}/\text{W}$



FIG.1

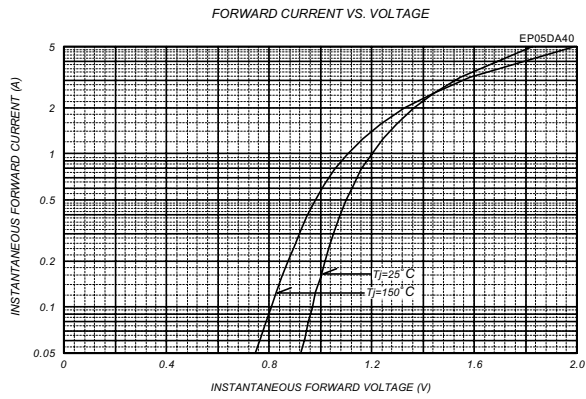


FIG.2

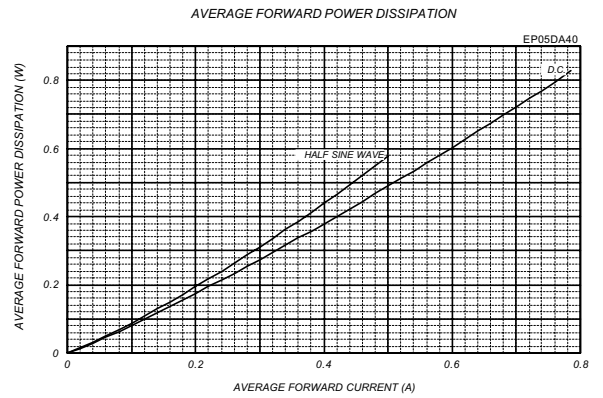


FIG.3

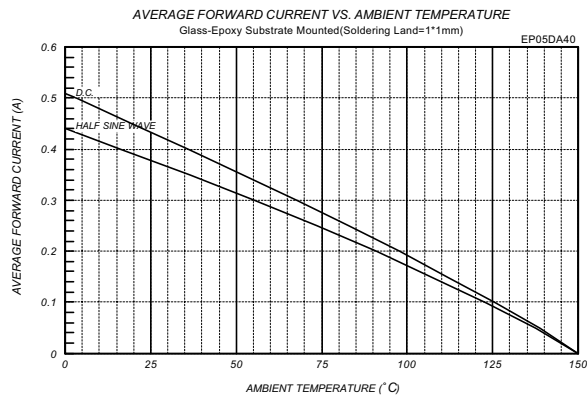


FIG.4

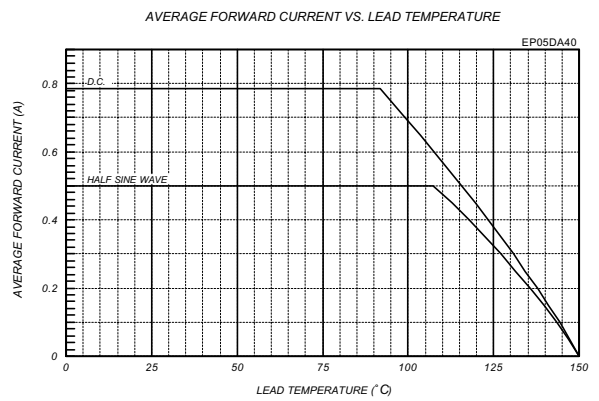


FIG.5

