



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			

### Features

- Ultra-Fast Recovery
- Very Low Profile 1.1mm Max
- High Surge Capability
- Low Thermal Resistance
- Packaged in 8mm Tape and Reel

### 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



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

Rating	Symbol	EP05FA20		Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	200		V
Non-repetitive Peak Reverse Voltage	$V_{RSM}$	220		V
Average Rectified Output Current	$I_O$	0.45	$T_a=25^\circ\text{C}^*$	50Hz Half Sine Wave Resistive Load
		0.5	$T_l=115^\circ\text{C}$	
RMS Forward Current	$I_{F(RMS)}$	0.785		A
Surge Forward Current	$I_{FSM}$	8	50Hz Half Sine Wave, 1cycle Non-repetitive	A
Operating Junction Temperature Range	$T_{jw}$	-40 to +150		$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-40 to +150		$^\circ\text{C}$

### Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	$I_{RM}$	$T_j = 25^\circ\text{C}, V_{RM} = V_{RRM}$	-	-	10	$\mu\text{A}$
Peak Forward Voltage	$V_{FM}$	$T_j = 25^\circ\text{C}, I_{FM} = 1.0\text{A}$	-	-	0.95	V
Reverse Recovery Time	trr	$I_{FM} = 1\text{A}, -di/dt = 50\text{A}/\mu\text{s}, T_a = 25^\circ\text{C}$	-	-	30	ns
Thermal Resistance	$R_{th(j-a)}$	Junction to Ambient *	-	-	300	$^\circ\text{C}/\text{W}$
	$R_{th(j-l)}$	Junction to Lead	-	-	70	

\* Glass Epoxy Substrate Mounted Soldering Lands=1x1mm, Both Sides