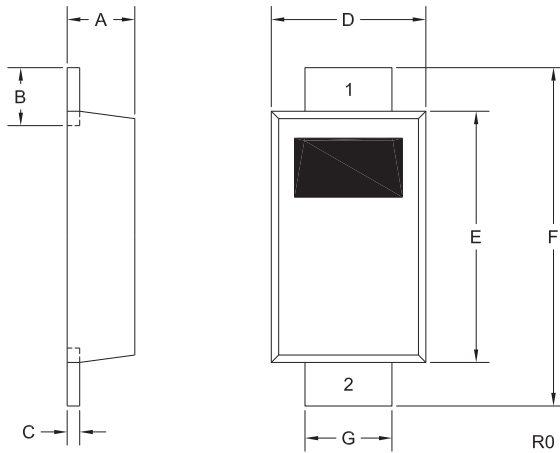


**Package Details**  
SOD-123FL Case



**Mechanical Drawing**



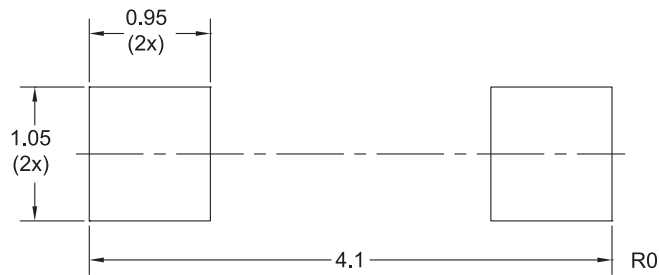
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.024	0.031	0.60	0.80
B	0.020	0.028	0.50	0.70
C	0.003	0.007	0.08	0.18
D	0.059	0.067	1.50	1.70
E	0.094	0.110	2.40	2.80
F	0.130	0.146	3.30	3.70
G	0.031	0.039	0.80	1.00

SOD-123FL (REV:R0)

**Lead Code:**  
1) Cathode  
2) Anode

**Part Marking:** 3 Character Alpha/Numeric Code

**Mounting Pad Geometry** (Dimensions in mm)



R0 (21-March 2011)

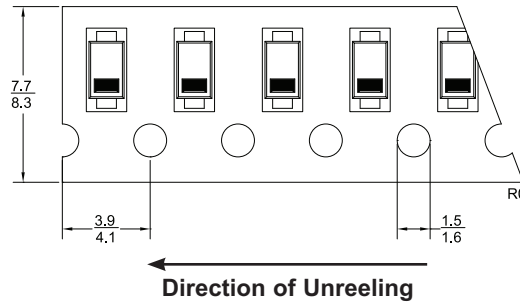
# Package Details

## SOD-123FL Case



### Tape Dimensions and Orientation (Dimensions in mm)

Tape Width: 8mm



Devices are taped in accordance with Electronic Industries Association Standard EIA-481-1-A

### Packaging Base

7" Reel = 3,000 pcs.

### Reel Labeling Information

Each reel is labeled with the following information:

Central Part Number, Customer Part Number, Purchase Order Number, Quantity, Lot Number, Date Code, Ship Date and Marking Code.

### Reel Packing Information

Reel Size	Reels per Box (Maximum)	Parts per Box (Maximum)	Box Dimensions		Shipping Weight (Max.)	
			INCH	CM	LB	KG
7"	8	24,000	9x9x5	23x23x13	3	2
	17	51,000	9x9x9	23x23x23	6	3
	40	120,000	21x9x9	53x23x23	13	6
	108	324,000	27x9x17	69x23x43	34	16

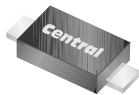
### Ordering Information

- For devices taped and reeled on 7" reels, add TR suffix to part number.
- All SMDs are available in small quantities for prototype and manual placement applications.

R0 (21-March 2011)

# Material Composition Specification

## SOD-123FL Case



Device average mass ..... 8.34 mg  
 Fluctuation margin ..... +/-10%

Component	Material	Material		Substance	CAS No.	Substance		
		(%wt)	(mg)			(%wt)	(mg)	(ppm)
active device	doped Si	0.47%	0.039	Si	7440-21-3	0.43%	0.036	4,318
				Au	7440-57-5	0.04%	0.003	360
bond wire	gold	0.01%	0.001	Au	7440-57-5	0.01%	0.001	120
leadframe	Cu alloy w/ silver plating	45.6%	3.802	Cu	7440-50-8	44.38%	3.7	443,789
				Fe	7439-89-6	1.08%	0.09	10,795
				Ag	7440-22-4	0.14%	0.012	1,439
encapsulation	EMC	53.12%	4.429	SiO <sub>2</sub>	14808-60-7	38.38%	3.2	383,817
				epoxy resin	29690-82-2	6.6%	0.55	65,969
				phenol resin	9003-35-4	6.6%	0.55	65,969
				Sb <sub>2</sub> O <sub>3</sub>	1309-64-4	0.42%	0.035	4,198
				Br	7726-95-6	1.13%	0.094	11,275
plating	tin alloy	0.8%	0.066	Sn	7440-31-5	0.78%	0.065	7,796
				Bi	7440-69-9	0.02%	0.0013	156

**Disclaimer**

The information provided in this Material Composition data sheet is, to the best of our knowledge, correct. However, there is no guarantee to completeness or accuracy, as some information is derived from data sources outside the company.

R1 (3-June 2011)