



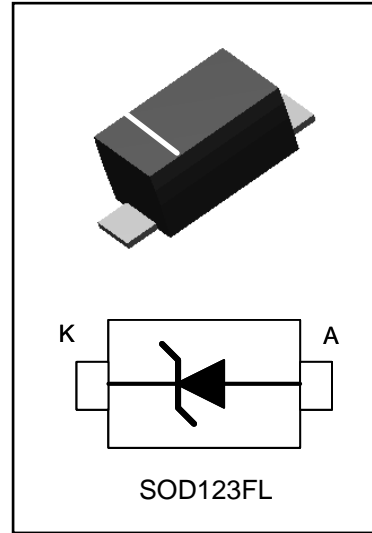
PRELIMINARY

## 800mW ZENER DIODES IN SOD123FL PACKAGE

This Voltage Regulator Diode Series have been designed to operate at a maximum steady power dissipation of 800mW. This device comes in the new industry standard SOD123 Flat Lead (SOD123FL) package making it suitable for Portable/Computing Electronics, where the board space is a premium. This package also is compatible with the SOD87 package pad layout dimensions.

### SPECIFICATION FEATURES

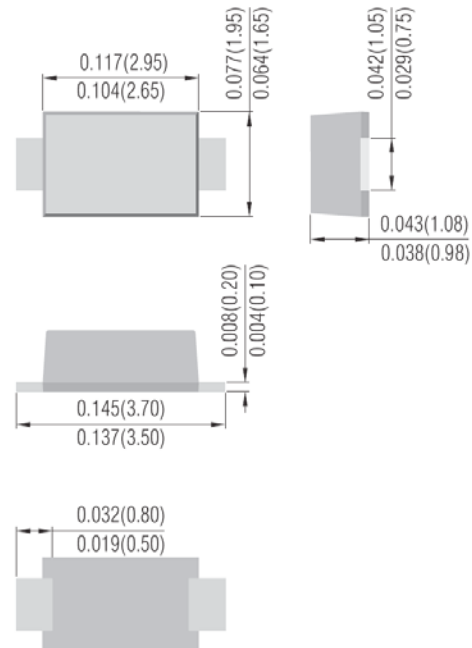
- Steady Power Dissipation of 800mW
- Very Low Leakage Current
- Low Zener Impedance
- SOD123 Flat Lead Package



### APPLICATIONS

- Personal Digital Assistant (PDA)
- Digital Cameras
- Portable Instrumentation
- Mobile Phones and Accessories
- Desktops, Laptops
- MP3 Players

### Outline Drawing Unit: in (mm)



### MAXIMUM RATINGS

Rating	Symbol	Value	Units
Maximum Steady State Power Dissipation	$P_D$	0.8	W
Non-Repetitive Peak Reverse Power Dissipation (10/1000 $\mu$ s)	$P_{RSM}$	150	W
Operating Temperature Range	$T_J$	-55 to +150	$^{\circ}$ C
Storage Temperature Range	$T_{stg}$	-55 to +150	$^{\circ}$ C


**ELECTRICAL CHARACTERISTICS**  $T_j = 25^\circ\text{C}$ 

Part Number	Nominal Zener Voltage			Max. Zener Impedance				Max. Reverse Leakage Current		Marking Code
	$V_z @ I_{zT}$			$Z_{zT} @ I_{zT}$		$Z_{zK} @ I_{zK}$		$I_R @ V_R$		
	Nom. V	Mn. V	Max V	$\Omega$	mA	$\Omega$	mA	$\mu\text{A}$	V	
BZD27C3V6P	3.6	3.46	3.74	8	100	---	---	100	1	3V6
BZD27C3V9P	3.9	3.74	4.06	8	100	---	---	50	1	3V9
BZD27C4V3P	4.3	4.13	4.47	7	100	---	---	25	1	4V3
BZD27C4V7P	4.7	4.51	4.89	7	100	---	---	10	1	4V7
BZD27C5V1P	5.1	4.90	5.30	6	100	---	---	5	1	5V1
BZD27C5V6P	5.6	5.38	5.82	4	100	---	---	10	2	5V6
BZD27C6V0P	6.0	5.76	6.24	3	100	---	---	8	2	6V1
BZD27C6V2P	6.2	5.95	6.45	3	100	---	---	5	2	6V2
BZD27C6V8P	6.8	6.53	7.07	3	100	---	---	10	3	6V8
BZD27C7V5P	7.5	7.20	7.80	2	100	---	---	50	3	7V5
BZD27C8V2P	8.2	7.87	8.53	2	100	---	---	10	3	8V2
BZD27C8V7P	8.7	8.35	9.05	3	50	---	---	10	4	8V7
BZD27C9V1P	9.1	8.74	9.46	4	50	---	---	10	5	9V1
BZD27C10P	10	9.60	10.40	4	50	---	---	7	7.5	10P
BZD27C11P	11	10.56	11.44	7	50	---	---	4	8.2	11P
BZD27C12P	12	11.52	12.48	7	50	---	---	3	9.1	12P
BZD27C13P	13	12.48	13.52	10	50	---	---	2	10	13P
BZD27C14P	14	13.44	14.56	10	50	---	---	2	11	14P
BZD27C15P	15	14.40	15.60	10	50	---	---	1	11	15P
BZD27C16P	16	15.36	16.64	15	25	---	---	1	12	16P
BZD27C17P	17	16.32	17.68	15	25	---	---	1	13	17P
BZD27C18P	18	17.28	18.72	15	25	---	---	1	13	18P
BZD27C19P	19	18.24	19.76	15	25	---	---	1	14	19P
BZD27C20P	20	19.20	20.80	15	25	---	---	1	15	20P
BZD27C22P	22	21.12	22.88	15	25	---	---	1	16	22P
BZD27C24P	24	23.04	24.96	15	25	---	---	1	18	24P
BZD27C25P	25	24.00	26.00	15	25	---	---	1	19	25P
BZD27C27P	27	25.92	28.08	15	25	---	---	1	20	27P
BZD27C28P	28	26.88	29.12	15	25	---	---	1	21	28P
BZD27C30P	30	28.80	31.20	15	25	---	---	1	22	30P
BZD27C33P	33	31.68	34.32	15	25	---	---	1	24	33P
BZD27C36P	36	34.56	37.44	40	10	---	---	1	27	36P
BZD27C39P	39	37.44	40.56	40	10	---	---	1	30	39P
BZD27C43P	43	41.28	44.72	45	10	---	---	1	33	43P
BZD27C47P	47	45.12	48.88	45	10	---	---	1	36	47P
BZD27C51P	51	48.96	53.04	60	10	---	---	1	39	51P

PRELIMINARY