

VOLTAGE RANGE: 2.4 - 200V

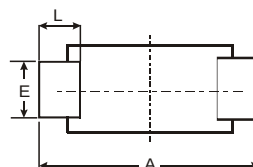
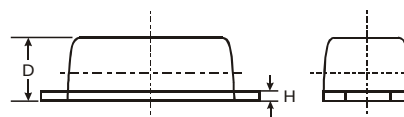
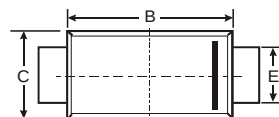
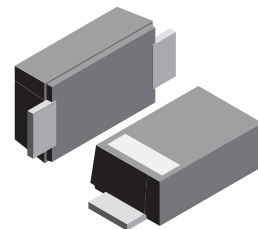
POWER: 1.3Watts

Features

- Complete Voltage Range 2.4 to 200 Volts
- High peak reverse power dissipation
- High reliability
- Low leakage current

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			

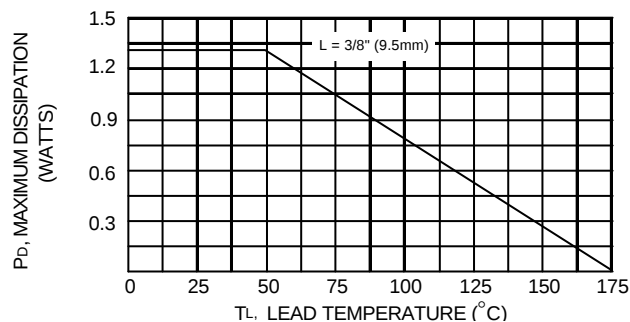
Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise specified

Rating	Symbol	Value	Unit
DC Power Dissipation at $T_L = 50^\circ\text{C}$ (Note1)	P_D	1.3	Watts
Maximum Forward Voltage at $I_F = 200\text{ mA}$	V_F	1.0	Volts
Maximum Thermal Resistance Junction to Ambient Air (Note2)	$R_{\theta JA}$	130	K / W
Junction Temperature Range	T_J	- 55 to + 175	$^\circ\text{C}$
Storage Temperature Range	T_S	- 55 to + 175	$^\circ\text{C}$

Note :

- (1) T_L = Lead temperature at 3/8 " (9.5mm) from body
- (2) Valid provided that leads are kept at ambient temperature at a distance of 10 mm from case.

Fig.1 POWER TEMPERATURE DERATING CURVE



ELECTRICAL CHARACTERISTICS

Rating at = 25 °C ambient temperature unless otherwise specified

TYPE	Nominal Zener Voltage		Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current
	V _Z @ I _{ZT}	I _{ZT}	Z _{ZT} @ I _{ZT}	Z _{ZK} @ I _{ZK}	I _{ZK}	I _R @ V _R		I _{ZM}
	(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	(mA)
BZXF85 C2V4	2.4	80	20	400	1.0	150	1.0	410
BZXF85 C2V7	2.7	80	20	400	1.0	150	1.0	370
BZXF85 C3V0	3.0	80	20	400	1.0	100	1.0	340
BZXF85 C3V3	3.3	80	20	400	1.0	40	1.0	320
BZXF85 C3V6	3.6	70	20	500	1.0	20	1.0	290
BZXF85 C3V9	3.9	60	15	500	1.0	10	1.0	280
BZXF85 C4V3	4.3	50	13	500	1.0	3.0	1.0	250
BZXF85 C4V7	4.7	45	13	500	1.0	3.0	1.0	215
BZXF85 C5V1	5.1	45	10	500	1.0	1.0	1.5	200
BZXF85 C5V6	5.6	45	7.0	400	1.0	1.0	2.0	190
BZXF85 C6V2	6.2	35	4.0	300	1.0	1.0	3.0	170
BZXF85 C6V8	6.8	35	3.5	300	1.0	50	4.0	155
BZXF85 C7V5	7.5	35	3.0	200	0.5	50	4.5	140
BZXF85 C8V2	8.2	25	5.0	200	0.5	50	6.2	130
BZXF85 C9V1	9.1	25	5.0	200	0.5	50	6.8	120
BZXF85 C10	10	25	7.0	200	0.5	50	7.5	105
BZXF85 C11	11	20	8.0	300	0.5	50	8.2	97
BZXF85 C12	12	20	9.0	350	0.5	0.5	9.1	88
BZXF85 C13	13	20	10	400	0.5	0.5	10	79
BZXF85 C15	15	15	15	500	0.5	0.5	11	71
BZXF85 C16	16	15	15	500	0.5	0.5	12	66
BZXF85 C18	18	15	20	500	0.5	0.5	13	62
BZXF85 C20	20	10	24	600	0.5	0.5	15	56
BZXF85 C22	22	10	25	600	0.5	0.5	16	52
BZXF85 C24	24	10	25	600	0.5	0.5	18	47
BZXF85 C27	27	8.0	30	750	0.25	0.5	20	41
BZXF85 C30	30	8.0	30	1000	0.25	0.5	22	36
BZXF85 C33	33	8.0	35	1000	0.25	0.5	24	33
BZXF85 C36	36	8.0	40	1000	0.25	0.5	27	30
BZXF85 C39	39	6.0	50	1000	0.25	0.5	30	28
BZXF85 C43	43	6.0	50	1000	0.25	0.5	33	26
BZXF85 C47	47	4.0	90	1500	0.25	0.5	36	23
BZXF85 C51	51	4.0	115	1500	0.25	0.5	39	21
BZXF85 C56	56	4.0	120	2000	0.25	0.5	43	19
BZXF85 C62	62	4.0	125	2000	0.25	0.5	47	16
BZXF85 C68	68	4.0	130	2000	0.25	0.5	51	15
BZXF85 C75	75	4.0	135	2000	0.25	0.5	56	14
BZXF85 C82	82	2.7	200	3000	0.25	0.5	62	12
BZXF85 C91	91	2.7	250	3000	0.25	0.5	68	10
BZXF85 C100	100	2.7	350	3000	0.25	0.5	75	9.4
BZXF85 C110	110	2.7	450	4000	0.25	0.5	82	8.6
BZXF85 C120	120	2.0	550	4500	0.25	0.5	91	7.8
BZXF85 C130	130	2.0	700	5000	0.25	0.5	100	7.0
BZXF85 C150	150	2.0	1000	6000	0.25	0.5	110	6.4
BZXF85 C160	160	1.5	1100	6500	0.25	0.5	120	5.8
BZXF85 C180	180	1.5	1200	7000	0.25	0.5	130	5.2
BZXF85 C200	200	1.5	1500	8000	0.25	0.5	150	4.7

Note: (1) The type number listed have a standard tolerance on the nominal zener voltage of $\pm 5.0\%$.