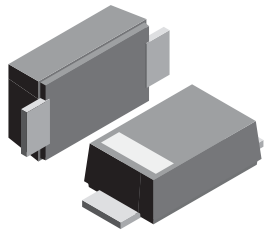
Z2SMF3V6 - Z2SMF200

SURFACE MOUNT SILICON ZENER DIODES

VOLTAGE RANGE: 3.6 - 200V
POWER: 2.0Watts



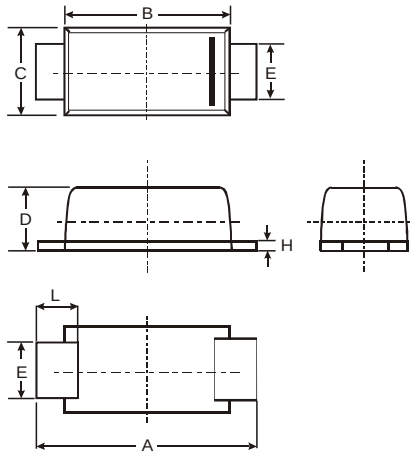
Features

- Complete Voltage Range 3.6 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

RoHS COMPLIANT



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°C unless otherwise specified

Rating	Symbol	Value	Unit
DC Power Dissipation at T_L = 75 °C (Note1)	P_D	2.0	Watts
Maximum Forward Voltage at I_F = 200 mA	V_F	1.2	Volts
Maximum Thermal Resistance Junction to Ambient Air (Note2)	$R\theta JA$	60	K / W
Junction Temperature Range	T_J	- 55 to + 175	°C
Storage Temperature Range	Ts	- 55 to + 175	°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.

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)
Z2SMF3V6	3.6	139	5.0	400	1.0	80	1.0	504
Z2SMF3V9	3.9	128	5.0	400	1.0	30	1.0	468
Z2SMF4V3	4.3	116	4.5	400	1.0	20	1.0	434
Z2SMF4V7	4.7	106	4.5	550	1.0	5.0	1.0	386
Z2SMF5V1	5.1	98.0	3.5	600	1.0	5.0	1.0	356
Z2SMF5V6	5.6	89.5	2.5	500	1.0	5.0	2.0	324
Z2SMF6V2	6.2	80.5	1.5	700	1.0	5.0	3.0	292
Z2SMF6V8	6.8	73.5	2.0	700	1.0	5.0	4.0	266
Z2SMF7V5	7.5	66.5	2.0	700	0.5	50	5.0	242
Z2SMF8V2	8.2	61.0	2.3	700	0.5	50	6.0	220
Z2SMF9V1	9.1	55.0	2.5	700	0.5	50	7.0	200
Z2SMF10	10	50.0	3.5	700	0.25	50	7.6	182
Z2SMF11	11	45.5	4.0	700	0.25	50	8.4	166
Z2SMF12	12	41.5	4.5	700	0.25	1.0	9.1	152
Z2SMF13	13	38.5	5.0	700	0.25	0.5	9.9	138
Z2SMF14	14	35.7	5.5	700	0.25	0.5	10.6	130
Z2SMF15	15	33.4	7.0	700	0.25	0.5	11.4	122
Z2SMF16	16	31.2	8.0	700	0.25	0.5	12.2	114
Z2SMF17	17	29.4	9.0	750	0.25	0.5	13.0	107
Z2SMF18	18	27.8	10	750	0.25	0.5	13.7	100
Z2SMF19	19	26.3	11	750	0.25	0.5	14.4	95
Z2SMF20	20	25.0	11	750	0.25	0.5	15.2	90
Z2SMF22	22	22.8	12	750	0.25	0.5	16.7	82
Z2SMF24	24	20.8	13	750	0.25	0.5	18.2	76
Z2SMF27	27	18.5	18	750	0.25	0.5	20.6	68
Z2SMF30	30	16.6	20	1000	0.25	0.5	22.5	60
Z2SMF33	33	15.1	23	1000	0.25	0.5	25.1	55
Z2SMF36	36	13.9	25	1000	0.25	0.5	27.4	50
Z2SMF39	39	12.8	30	1000	0.25	0.5	29.7	47
Z2SMF43	43	11.6	35	1500	0.25	0.5	32.7	43
Z2SMF47	47	10.6	40	1500	0.25	0.5	35.8	39
Z2SMF51	51	9.8	48	1500	0.25	0.5	38.8	36
Z2SMF56	56	9.0	55	2000	0.25	0.5	42.6	32
Z2SMF62	62	8.1	60	2000	0.25	0.5	47.1	29
Z2SMF68	68	7.4	75	2000	0.25	0.5	51.7	27
Z2SMF75	75	6.7	90	2000	0.25	0.5	56.0	24
Z2SMF82	82	6.1	100	3000	0.25	0.5	62.2	22
Z2SMF91	91	5.5	125	3000	0.25	0.5	69.2	20
Z2SMF100	100	5.0	175	3000	0.25	0.5	76.0	18
Z2SMF110	110	4.5	250	4000	0.25	0.5	83.6	17
Z2SMF120	120	4.2	325	4500	0.25	0.5	91.2	15
Z2SMF130	130	3.8	400	5000	0.25	0.5	98.8	14
Z2SMF140	140	3.6	500	5500	0.25	0.5	106.4	13
Z2SMF150	150	3.3	575	6000	0.25	0.5	114.0	12
Z2SMF160	160	3.1	650	6500	0.25	0.5	121.6	11
Z2SMF170	170	2.9	675	7000	0.25	0.5	130.4	11
Z2SMF180	180	2.8	725	7000	0.25	0.5	136.8	10
Z2SMF190	190	2.6	825	8000	0.25	0.5	144.8	10
Z2SMF200	200	2.5	900	8000	0.25	0.5	152.0	9.0