

ZENER DIODE

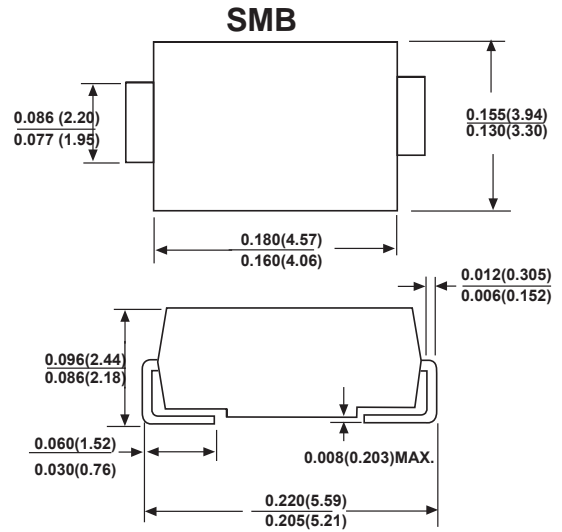
PEAK PULSE POWER:3000mW

FEATURES

- Low Reverse Leakage
- Low Zener Impedance
- High Stability and High Reliability

MECHANICAL DATA

- Case: SMB
- Polarity: Color band denotes cathode end
- Mounting Position: Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25 C ambient temperature unless otherwise specified

Parameters	SYMBOLS	VALUE	UNITS
Power Dissipation	P_D	3000	mW
Forward Voltage @ I_F	V_F	1.5	V
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to + 150	°C

Electrical Specification ($T_A=25^\circ\text{C}$ unless otherwise specified)

Type	V_Z V	I_{ZT} mA	Z_{ZT}	Z_{ZK}	I_{ZK} mA	I_{RM} μA	V_R V	I_{ZM} @ 50°C mA
			($I=I_{ZT}$) Ω	Z_{Kl} Ω				
SMBJ5913B	3.3	113.6	10.0	1.0	500	100	1.0	454
SMBJ5914B	3.6	104.2	9.0	1.0	500	75	1.0	416
SMBJ5915B	3.9	96.1	7.5	1.0	500	25	1.0	384
SMBJ5916B	4.3	87.2	6.0	1.0	500	5.0	1.0	348
SMBJ5917B	4.7	79.8	5.0	1.0	500	5.0	1.5	319
SMBJ5918B	5.1	73.5	4.0	1.0	350	5.0	2.0	294
SMBJ5919B	5.6	66.9	2.0	1.0	250	5.0	3.0	267
SMBJ5920B	6.2	60.5	2.0	1.0	200	5.0	4.0	241
SMBJ5921B	6.8	55.1	2.5	1.0	200	5.0	5.2	220

RATINGS AND CHARACTERISTIC CURVES

Type	V _Z	I _{ZT}	Z _{ZT}	Z _{ZK}	I _{ZK}	I _{RM}	V _R	I _{ZM} @50°C
			(I=I _{ZT})	I _{ZK}				
	V	mA	Ω	Ω	mA	μA	V	mA
SMBJ5922B	7.5	50.0	3.0	0.5	400	5.0	6.0	200
SMBJ5923B	8.2	45.7	3.5	0.5	400	5.0	6.5	182
SMBJ5924B	9.1	41.2	4.0	0.5	500	5.0	7.0	164
SMBJ5925B	10	37.5	4.5	0.25	500	5.0	8.0	150
SMBJ5926B	11	34.1	5.5	0.25	550	1.0	8.4	136
SMBJ5927B	12	31.2	6.5	0.25	550	1.0	9.1	125
SMBJ5928B	13	28.8	7.0	0.25	550	1.0	9.9	115
SMBJ5929B	15	25.0	9.0	0.25	600	1.0	11.4	100
SMBJ5930B	16	23.4	10.0	0.25	600	1.0	12.2	93
SMBJ5931B	18	20.8	12.0	0.25	650	1.0	13.7	83
SMBJ5932B	20	18.7	14.0	0.25	650	1.0	15.2	75
SMBJ5933B	22	17.0	17.5	0.25	650	1.0	16.7	68
SMBJ5934B	24	15.6	19	0.25	700	1.0	18.2	62
SMBJ5935B	27	13.9	23	0.25	700	1.0	20.6	55
SMBJ5936B	30	12.5	28	0.25	750	1.0	22.8	50
SMBJ5937B	33	11.4	33	0.25	800	1.0	25.1	45
SMBJ5938B	36	10.4	38	0.25	850	1.0	27.4	41
SMBJ5939B	39	9.6	45	0.25	900	1.0	29.7	38
SMBJ5940B	43	8.7	53	0.25	950	1.0	32.7	34
SMBJ5941B	47	8.0	67	0.25	1000	1.0	35.8	31
SMBJ5942B	51	7.3	70	0.25	1100	1.0	38.8	29
SMBJ5943B	56	6.7	86	0.25	130	1.0	42.6	26
SMBJ5944B	62	6.0	100	0.25	1500	1.0	47.1	24
SMBJ5945B	68	5.5	120	0.25	1700	1.0	51.2	22
SMBJ5946B	75	5.0	140	0.25	2000	1.0	56.0	20
SMBJ5947B	82	4.6	160	0.25	2500	1.0	62.2	18
SMBJ5948B	91	4.1	200	0.25	3000	1.0	69.2	16
SMBJ5949B	100	3.7	250	0.25	3100	1.0	76.0	15
SMBJ5950B	110	3.4	300	0.25	4000	1.0	83.6	13
SMBJ5951B	120	3.1	380	0.25	4500	1.0	91.2	12
SMBJ5952B	130	2.9	450	0.25	5000	1.0	98.8	11

RATINGS AND CHARACTERISTIC CURVES

Type	V _Z	I _{ZT}	Z _{ZT}	Z _{ZK}	I _{ZK}	I _{RM}	V _R	I _{ZM} @50°C
			(I=I _{ZT})	I _{ZK}				
	V	mA	Ω	Ω	mA	μA	V	mA
SMBJ5953B	150	2.5	600	0.25	6000	1.0	114.0	10
SMBJ5954B	160	2.3	700	0.25	6500	1.0	121.6	9
SMBJ5955B	180	2.1	900	0.25	7000	1.0	136.8	8
SMBJ5956B	200	1.9	1200	0.25	8000	1.0	152.0	7