

RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free

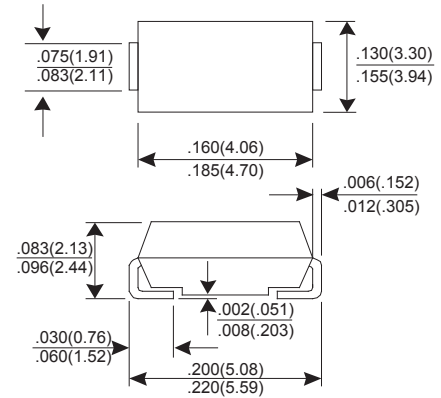
FEATURES

- * For surface mounted applications
- * 3.0 W power dissipation
- * Ideally suited for automated assembly processes

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Solderable per MIL-STD-750 method 2026
- * Polarity: Cathode band
- * Mounting position: Any
- * Weight: 0.093 grams

SMB



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.

Electrical Characteristics	Symbol	Value	Unit
Power Dissipation (Note 1)	P _D	3.0	W
Half sine-wave superimposed on rated load JEDEC method (Note 2)	I _{FSM}	10	A
Operating junction and Storage Temperature	T _J , T _{STG}	-55 to +155	°C

Note: (1) Mounted on 5.0mm²(.013mm thick) land areas.

(2) Measured on 8.3ms, single half-sine wave or equivalent square wave, duty cycle = 4 pulses per minute maximum. □

SMB5921 THRU SMB5956

Part No.	Electrical Characteristic (Ta=25°C)							Surge Current (mA)
	Vz (V)	IzT (mA)	ZzT (Ohm)	ZzK (Ohm)	IzK (mA)	IR(uA) Max.		
						VR(V)		
SMB5921B	6.8	55.1	2.5	200	1.0	5.0	5.2	220
SMB5922B	7.5	50	3	400	0.5	5.0	6.0	200
SMB5923B	8.2	45.7	3.5	400	0.5	5.0	6.5	182
SMB5924B	9.1	41.2	4	500	0.5	5.0	7.0	164
SMB5925B	10	37.5	4.5	500	0.25	5.0	8.0	150
SMB5926B	11	34.1	5.5	550	0.25	1.0	8.4	136
SMB5927B	12	31.2	6.5	550	0.25	1.0	9.1	125
SMB5928B	13	28.8	7	550	0.25	1.0	9.9	115
SMB5929B	15	25.0	9	600	0.25	1.0	11.4	100
SMB5930B	16	23.4	10	600	0.25	1.0	12.2	93
SMB5931B	18	20.8	12	650	0.25	1.0	13.7	83
SMB5932B	20	18.7	14	650	0.25	1.0	15.2	75
SMB5933B	22	17.0	17.5	650	0.25	1.0	16.7	68
SMB5934B	24	15.6	19	700	0.25	1.0	18.2	62
SMB5935B	27	13.9	23	700	0.25	1.0	20.6	55
SMB5936B	30	12.5	26	750	0.25	1.0	22.8	50
SMB5937B	33	11.4	33	800	0.25	1.0	25.1	45
SMB5938B	36	10.4	38	850	0.25	1.0	27.4	41
SMB5939B	39	9.6	45	900	0.25	1.0	29.7	38
SMB5940B	43	8.7	53	950	0.25	1.0	32.7	34
SMB5941B	47	8.0	67	1000	0.25	1.0	35.8	31
SMB5942B	51	7.3	70	1100	0.25	1.0	38.8	29
SMB5943B	56	6.7	86	1300	0.25	1.0	42.6	26
SMB5944B	62	6.0	100	1500	0.25	1.0	47.1	24
SMB5945B	68	5.5	120	1700	0.25	1.0	51.7	22
SMB5946B	75	5.0	140	2000	0.25	1.0	56.0	20
SMB5947B	82	4.6	160	2500	0.25	1.0	62.2	18
SMB5948B	91	4.1	200	3000	0.25	1.0	69.2	16
SMB5949B	100	3.7	250	3100	0.25	1.0	76.0	15
SMB5950B	110	3.4	300	4000	0.25	1.0	83.6	13
SMB5951B	120	3.1	380	4500	0.25	1.0	91.2	12
SMB5952B	130	2.9	450	5000	0.25	1.0	98.8	11
SMB5953B	150	2.5	600	6000	0.25	1.0	114	10
SMB5954B	160	2.3	700	6500	0.25	1.0	121.6	9
SMB5955B	180	2.1	900	7000	0.25	1.0	136.8	8
SMB5956B	200	1.9	1200	8000	0.25	1.0	152	7

Suffix "B" for 5% tolerance.

FIG 1. STEADY STATE POWERDERATING

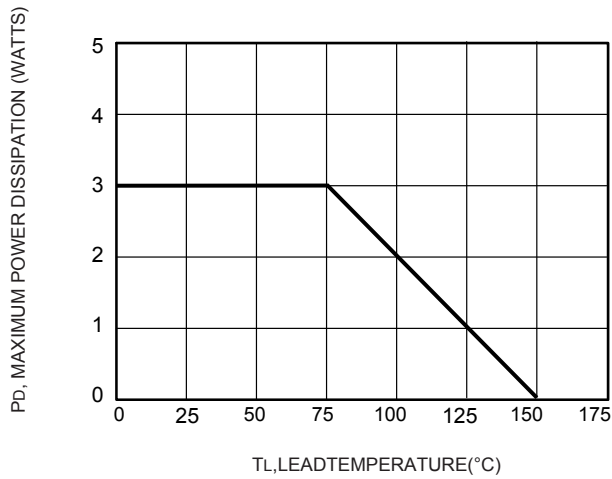


FIG 2. ZENER VOLTAGE-TO 12 VOLTS

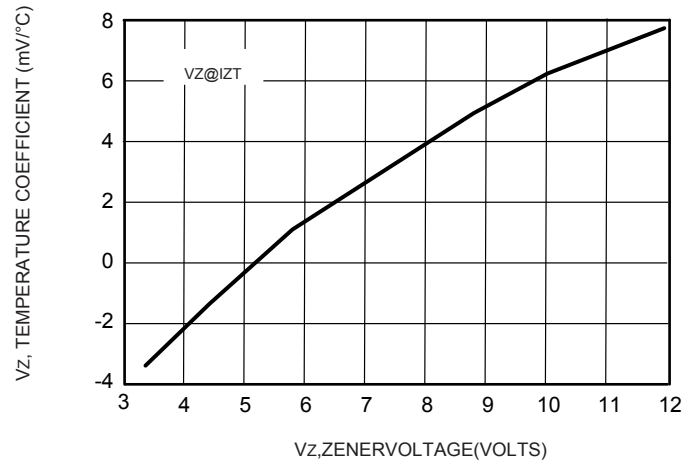


FIG 3. ZENER VOLTAGE-10 TO 12 VOLTS

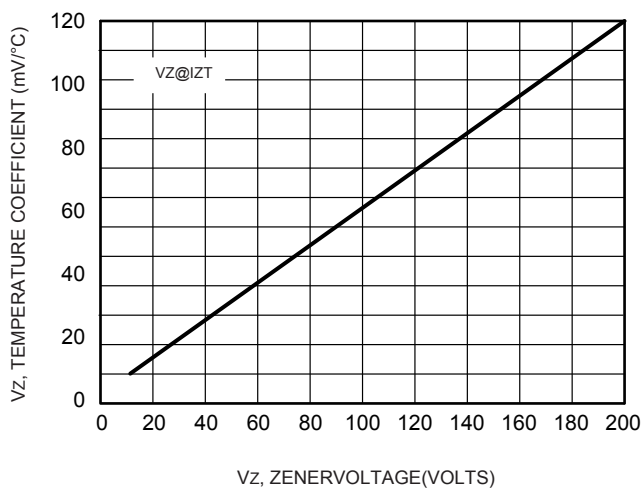
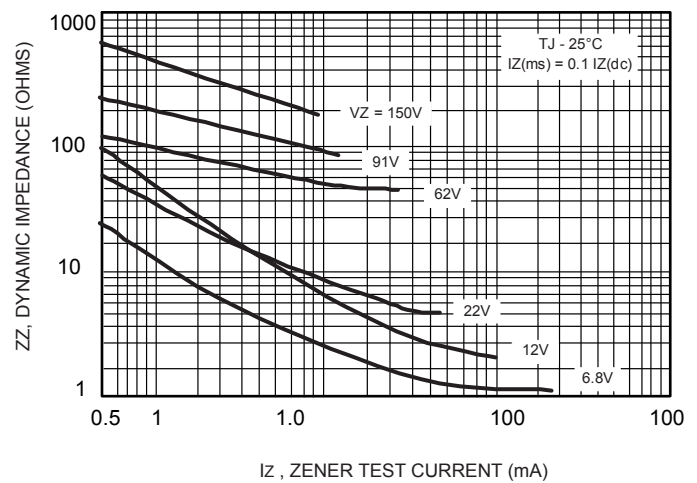


FIG 4. EFFECT OF ZENER CURRENT



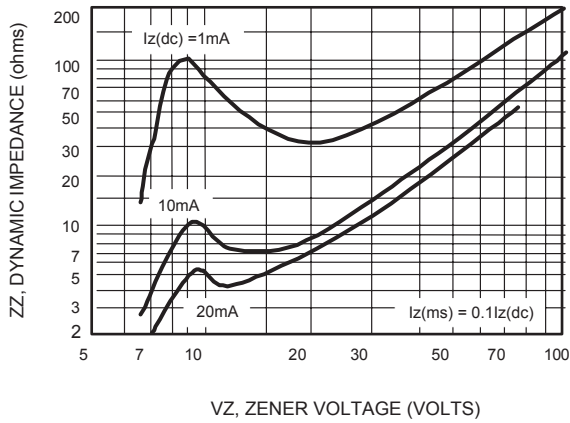


Fig 5. VZ = 6.8 THRU 10VOLTS

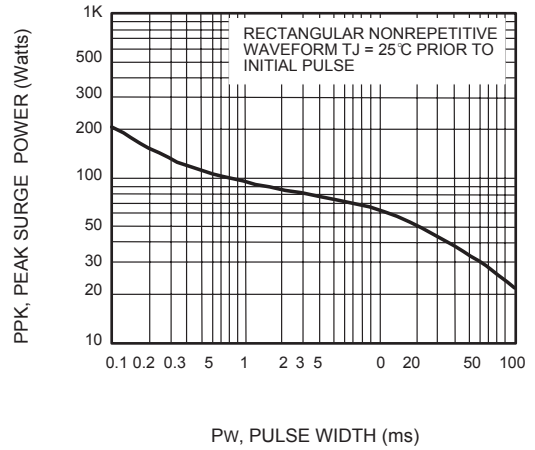


Fig 6. VZ=12 THRU 82 VOLTS

