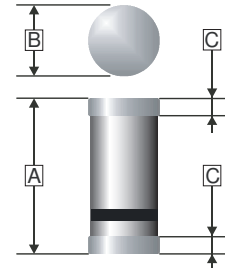


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Zener voltage range 2.0 to 39 volts (Graded)
- Surface device type mounting
- Hermetically sealed glass
- Compression bonded construction
- All external surfaces are corrosion resistant and terminals are readily solderable
- Matte Tin (Sn) Terminal Finish
- Color band Indicates Negative Polarity

SOD-80



REF.	Millimeter	
	Min.	Max.
A	3.30	3.70
B	1.40	1.60
C	0.28	0.50

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-80	2.5K	7 inch



MAXIMUM RATINGS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Power Dissipation	P _D	500	mW
Operating Junction and Storage Temperature Range	T _J , T _{STG}	175 , -65~175	°C

Notes:

1. These ratings are limiting values above which the serviceability of the diode may be impaired.

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

Type Number	Class	Zener Voltage Range ¹			Maximum Zener Impedance ²			Maximum Reverse Leakage Current ¹	
		$V_Z @ I_{ZT}$		I_{ZT}	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	I_{ZK}	$I_R @ V_R$	V_R
		Min(V)	Max(V)	mA	Ω		mA	μA	V
SLZ2V2	A	2.12	2.3	20	35	400	1	55	0.7
	B	2.22	2.41						
SLZ2V4	A	2.33	2.52	20	35	400	1	84	1
	B	2.43	2.63						
SLZ2V7	A	2.54	2.75	20	35	450	1	70	1
	B	2.69	2.91						
SLZ3V0	A	2.85	3.07	20	35	450	1	35	1
	B	3.01	3.22						
SLZ3V3	A	3.16	3.38	20	35	450	1	14	1
	B	3.32	3.53						
SLZ3V6	A	3.46	3.7	20	48	850	1	2.8	1
	B	3.6	3.85						
SLZ3V9	A	3.74	4.01	20	40	850	1	1.4	1
	B	3.89	4.16						
SLZ4V3	A	4.04	4.29	20	32	850	1	0.47	1
	B	4.17	4.43						
	C	4.3	4.57						
SLZ4V7	A	4.44	4.68	20	21	770	1	0.19	1
	B	4.55	4.8						
	C	4.68	4.93						
SLZ5V1	A	4.81	5.07	20	17	685	1	0.19	1.5
	B	4.94	5.2						
	C	5.09	5.37						
SLZ5V6	A	5.28	5.55	20	10.5	425	1	0.75	2.5
	B	5.45	5.73						
	C	5.61	5.91						
SLZ6V2	A	5.78	6.09	20	8.5	255	1	3.30	3.0
	B	5.96	6.27						
	C	6.12	6.44						
SLZ6V8	A	6.29	6.63	20	6.6	123	0.5	1.10	3.5
	B	6.49	6.83						
	C	6.66	7.01						
SLZ7V5	A	6.85	7.22	20	6.6	95	0.5	0.30	4.0
	B	7.07	7.45						
	C	7.29	7.67						

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

Type Number	Class	Zener Voltage Range ¹			Maximum Zener Impedance ²			Maximum Reverse Leakage Current ¹	
		$V_Z @ I_{ZT}$		I_{ZT}	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	I_{ZK}	$I_R @ V_R$	V_R
		Min(V)	Max(V)	mA	Ω		mA	μA	V
SLZ8V2	A	7.53	7.92	20	6.6	95	0.5	0.30	5.0
	B	7.78	8.19						
	C	8.03	8.45						
SLZ9V1	A	8.29	8.73	20	6.6	95	0.5	0.30	6.0
	B	8.57	9.01						
	C	8.83	9.3						
SLZ10V	A	9.12	9.59	20	6.6	95	0.5	0.11	7.0
	B	9.41	9.9						
	C	9.7	10.2						
SLZ11V	A	10.18	10.71	10	8.5	95	0.5	0.133	8.0
	B	10.5	11.05						
	C	10.82	11.38						
SLZ12V	A	11.13	11.71	10	9.5	95	0.5	0.133	9.0
	B	11.44	12.03						
	C	11.74	12.35						
SLZ13V	A	12.11	12.75	10	11.4	95	0.5	0.133	10
	B	12.55	13.21						
	C	12.99	13.66						
SLZ15V	A	13.44	14.13	10	13.3	95	0.5	0.133	11
	B	13.89	14.62						
	C	14.35	15.09						
SLZ16V	A	14.8	15.57	10	15.2	132	0.5	0.133	12
	B	15.25	16.04						
	C	15.69	16.51						
SLZ18V	A	16.22	17.06	10	19.4	123	0.5	0.133	13
	B	16.82	17.7						
	C	17.42	18.33						
SLZ20V	A	18.02	18.96	10	23.5	170	0.5	0.133	15
	B	18.63	19.59						
	C	19.23	20.22						
	D	19.72	20.72						
SLZ22V	A	20.15	21.2	5	25.6	170	0.5	0.133	17
	B	20.64	21.71						
	C	21.08	22.17						
	D	21.52	22.63						

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

Type Number	Class	Zener Voltage Range ¹			Maximum Zener Impedance ²			Maximum Reverse Leakage Current ¹	
		$V_Z @ I_{ZT}$		I_{ZT}	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	I_{ZK}	$I_R @ V_R$	V_R
		Min(V)	Max(V)	mA	Ω	mA	μA	V	
SLZ24V	A	22.05	23.18	5	29.0	170	0.5	0.133	19
	B	22.61	23.77						
	C	23.12	24.31						
	D	23.63	24.85						
SLZ27V	A	24.26	25.52	5	38.0	210	0.5	0.133	21
	B	24.97	26.26						
	C	25.63	26.95						
	D	26.29	27.64						
SLZ30V	A	26.99	28.39	5	46.0	210	0.5	0.133	23
	B	27.7	29.13						
	C	28.36	29.82						
	D	29.02	30.51						
SLZ33V	A	29.68	31.22	5	55.0	210	0.5	0.133	25
	B	30.32	31.88						
	C	30.9	32.5						
	D	31.49	33.11						
SLZ36V	A	32.14	33.79	5	63.0	210	0.5	0.133	27
	B	32.79	34.49						
	C	33.4	35.13						
	D	34.01	35.77						
SLZ39V	A	34.68	36.47	5	72.0	210	0.5	0.133	30
	B	35.36	37.19						
	C	36	37.85						
	D	36.63	38.52						

Notes:

1. The zener voltage subdivision (V_Z) is measured 40mS after diode is powered up.
2. The operating resistance (Z_{zt} and Z_{zk}) is measured by superimposing a minute alternation current in the regulated current (I_Z).
3. When ordering, please specify grade A, B, C or D.

CHARACTERISTIC CURVES

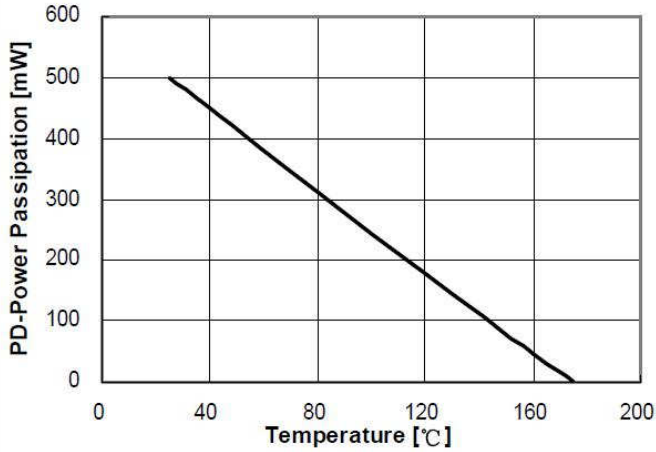


Figure 1. Power Dissipation vs Ambient Temperature
Valid provided leads at a distance of 0.8mm from case are kept at ambient temperature

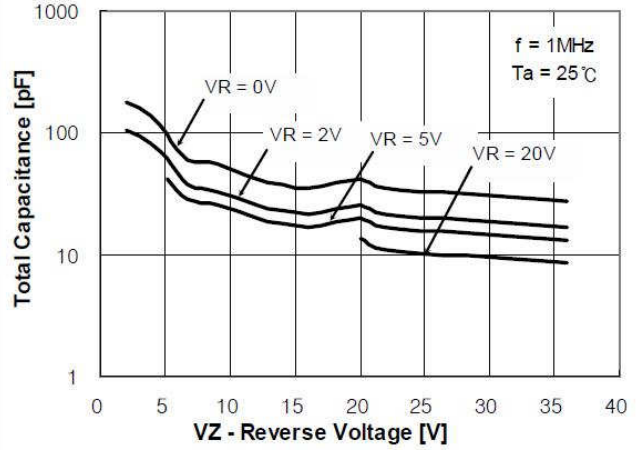


Figure 2. Total Capacitance

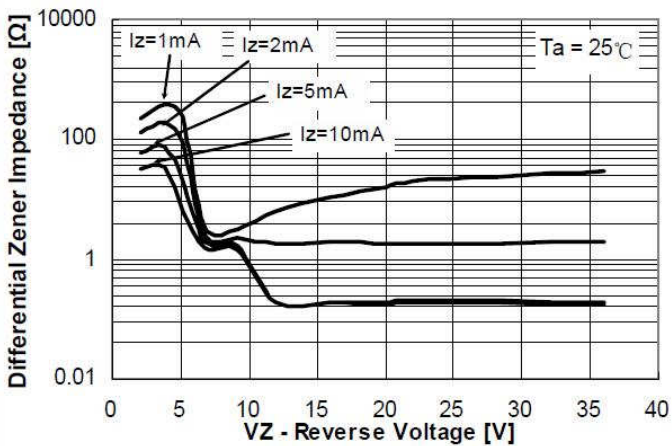


Figure 3. Differential Impedance vs. Zener Voltage

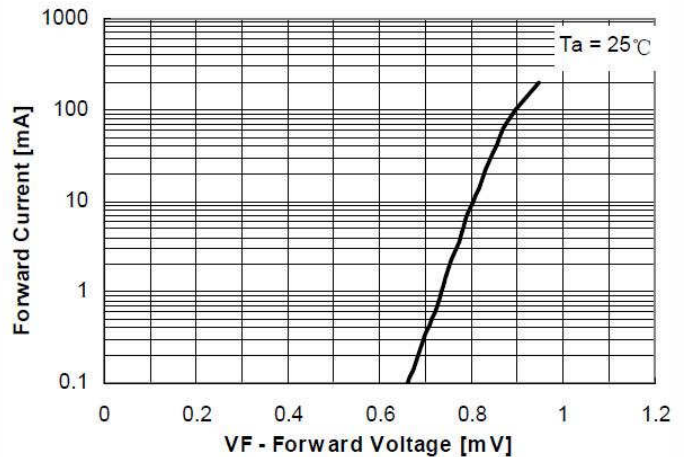


Figure 4. Forward Current vs. Forward Voltage

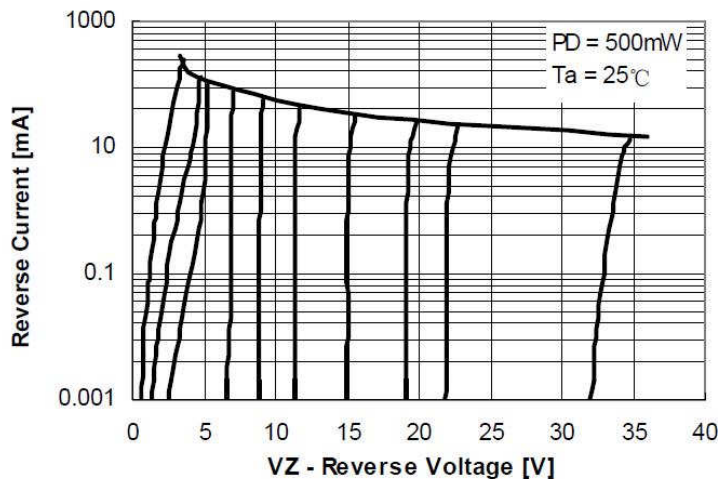


Figure 5. Reverse Current vs. Reverse Voltage