

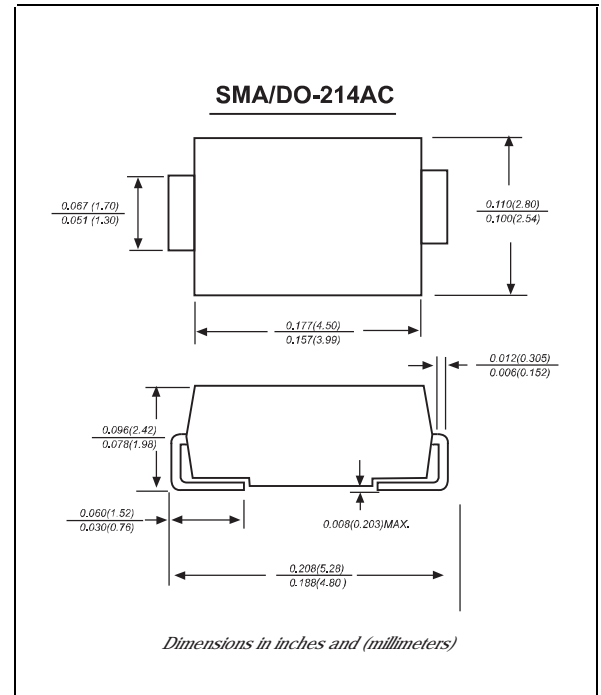
1SMA4736~1SMA4757
1000mW Zener Diodes

Features

- ◆ Low zener impedance
- ◆ Low regulation factor
- ◆ Glass passivated junction
- ◆ High temperature soldering guaranteed:
260°C/10 seconds at terminals

Mechanical Data

Case: JEDEC DO-214AC molded glass body
 Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
 Polarity: Color band denotes cathode end
 Mounting Position: Any
 Weight: 0.002 ounce, 0.07 grams



Maximum Ratings And Electrical Characteristics

Ratings at 25 C ambient temperature unless otherwise specified.

Parameter	Symbol	Value	Units
Peak Pulse Power Dissipation on $T_A=50^{\circ}\text{C}$ (Notes A) Derate above 50 °C	P_D	1.0	Watts
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	10	Amps
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to + 150	°C

NOTES:

- A. Mounted on 5.0mm² (.013mm thick) land areas.
- B. Measured on 8.3ms, and single half sine-wave or equivalent square wave, duty cycle=4 pulses per minute maximum.
- C. Tolerance and Type Number Designation. The type numbers listed have a standard tolerance on the nominal zener voltage of ± 5%.

Electrical Characteristics (at T_A = 25°C unless otherwise noted)

Part Number	Nominal Zener Voltage			Maximum Zener Impedance				Max Reverse Leakage Current		Marking Code
	V _Z @ I _{ZT}			Z _{ZT} @ I _{ZT}		Z _{ZK} @ I _{ZK}		I _R @ V _R		
	Nom. V	Min. V	Max. V	Ω	mA	Ω	mA	μA Max	V	
1 Watt ZENER										
1SMA4736	6.8	6.46	7.14	3.5	37	700	1	5	4	736B
1SMA4737	7.5	7.13	7.88	4	34	700	0.5	5	5	737B
1SMA4738	8.2	7.79	8.61	4.5	31	700	0.5	5	6	738B
1SMA4739	9.1	8.65	9.56	5	28	700	0.5	0.5	7	739B
1SMA4740	10	9.5	10.5	7	25	700	0.25	0.5	7.6	740B
1SMA4741	11	10.45	11.55	8	23	700	0.25	0.1	8.4	741B
1SMA4742	12	11.4	12.6	9	21	700	0.25	0.1	9.1	742B
1SMA4743	13	12.35	13.65	10	19	700	0.25	0.1	9.9	743B
1SMA4744	15	14.25	15.75	14	17	700	0.25	0.1	11.4	744B
1SMA4745	16	15.2	16.8	16	15.5	700	0.25	0.1	12.2	745B
1SMA4746	18	17.1	18.9	20	14	750	0.25	0.1	13.7	746B
1SMA4747	20	19	21	22	12.5	750	0.25	0.1	15.2	747B
1SMA4748	22	20.9	23.1	23	11.5	750	0.25	0.1	16.7	748B
1SMA4749	24	22.8	25.2	25	10.5	750	0.25	0.1	18.2	749B
1SMA4750	27	25.65	28.35	35	9.5	750	0.25	0.1	20.6	750B
1SMA4751	30	28.5	31.5	40	8.5	1000	0.25	0.1	22.8	751B
1SMA4752	33	31.35	34.65	45	7.5	1000	0.25	0.1	25.1	752B
1SMA4753	36	34.2	37.8	50	7	1000	0.25	0.1	27.4	753B
1SMA4754	39	37.05	40.95	60	6.5	1000	0.25	0.1	29.7	754B
1SMA4755	43	40.85	45.15	70	6	1500	0.25	0.1	32.7	755B
1SMA4756	47	44.65	49.35	80	5.5	1500	0.25	0.1	35.8	756B
1SMA4757	51	48.45	53.55	95	5	1500	0.25	0.1	38.8	757B