



# ZENER DIODES

1W , ± 5%

## 1N47-SERIES

RoHS Compliant Product

A suffix of "-C" specifies halogen-free

Device Type	Nominal Zener Voltage Vz at IzT*	Test Current IzT	Maximum Zener Impedance			Maximum Reverse Leakage Current		Surge Current IR at Ta=25°C	Maximum Regulator Current IzM
			ZzT at IzT	Zzk at Izk	Izk	IR	Test- Voltage suffix B		
	Volts	mA			mA	µA	Volts	mA	mA
1N4728A	3.3	76.0	10	400	1.00	100	1.0	1380	276
1N4729A	3.6	69.0	10	400	1.00	100	1.0	1260	252
1N4730A	3.9	64.0	9	400	1.00	50	1.0	1170	234
1N4731A	4.3	58.0	9	400	1.00	10	1.0	1085	217
1N4732A	4.7	53.0	8	500	1.00	10	1.0	965	193
1N4733A	5.1	49.0	7	550	1.00	10	1.0	890	178
1N4734A	5.6	45.0	5	600	1.00	10	2.0	810	162
1N4735A	6.2	41.0	2	700	1.00	10	3.0	730	146
1N4736A	6.8	37.0	3.5	700	1.00	10	4.0	660	133
1N4737A	7.5	34.0	4	700	0.50	10	5.0	605	121
1N4738A	8.2	31.0	4.5	700	0.50	10	6.0	550	110
1N4739A	9.1	28.0	5	700	0.50	10	7.0	500	100
1N4740A	10.0	25.0	7	700	0.25	10	7.6	454	91
1N4741A	11.0	23.0	8	700	0.25	5	8.4	414	83
1N4742A	12.0	21.0	9	700	0.25	5	9.1	380	76
1N4743A	13.0	19.0	10	700	0.25	5	9.9	344	69
1N4744A	15.0	17.0	14	700	0.25	5	11.4	304	61
1N4745A	16.0	15.5	16	700	0.25	5	12.2	285	57
1N4746A	18.0	14.0	20	750	0.25	5	13.7	250	50
1N4747A	20.0	12.5	22	750	0.25	5	15.2	225	45
1N4748A	22.0	11.5	23	750	0.25	5	16.7	205	41
1N4749A	24.0	10.5	25	750	0.25	5	18.2	190	38
1N4750A	27.0	9.5	35	750	0.25	5	20.6	170	34
1N4751A	30.0	8.5	40	1000	0.25	5	22.8	150	30
1N4752A	33.0	7.5	45	1000	0.25	5	25.1	135	27
1N4753A	36.0	7.0	50	1000	0.25	5	27.4	125	25
1N4754A	39.0	6.5	60	1000	0.25	5	29.7	115	23
1N4755A	43.0	6.0	70	1500	0.25	5	32.7	110	22
1N4756A	47.0	5.5	80	1500	0.25	5	35.8	95	19
1N4757A	51.0	5.0	95	1500	0.25	5	38.8	90	18
1N4758A	56.0	4.5	110	2000	0.25	5	42.6	80	16
1N4759A	62.0	4.0	125	2000	0.25	5	47.1	70	14
1N4760A	68.0	3.7	150	2000	0.25	5	51.7	65	13
1N4761A	75.0	3.3	175	2000	0.25	5	56.0	60	12
1N4762A	82.0	3.0	200	3000	0.25	5	62.2	55	11
1N4763A	91.0	2.8	250	3000	0.25	5	69.2	50	10
1N4764A	100.0	2.5	350	3000	0.25	5	76.0	45	9

STANDARD VOLTAGE TOLERANCE IS ±10% AND :

SUFFIX "A" FOR ±5%

OTHER TOLERANCES UPON REQUEST.

ZENER DIODE NUMBERING SYSTEM :  $\frac{1N4731}{1^*}$   $\frac{A}{2^*}$

1\* TYPE NO.

2\* TOLERANCE OF VZ

3\* e.g., 1N4731A=4.3V±5%

\* Measured with pulses tp = 40m SEC.

# ZENER DIODES

## 1N47-SERIES

### Absolute Maximum Ratings

	Symbol	Value	Unit
Zener Current see Table "Characteristics"			
Power Dissipation at Tamb=25°C	P <sub>tot</sub>	1*	mW
Junction Temperature	T <sub>j</sub>	200	°C
Operating Temperature Range		-50 to +150	°C
Storage Temperature Range	T <sub>s</sub>	-65 to +175	°C

\*Valid provided that leads at a distance of 10mm from case are kept at ambient temperature

Cases: DO-41 Molded Glass

### Characteristic at Tamb=25°C

	Symbol	Min.	Typ.	Max.	Unit
Thermal Resistance Junction to Ambient Air	R <sub>thA</sub>	-	-	170*	K/mW
Forward Voltage at I <sub>F</sub> =200mA	V <sub>F</sub>	-	-	1.2	V

\*Valid provided that leads at a distance of 10mm from case are kept at ambient temperature

### Breakdown Characteristics

