

SINLOON®

穩壓二極管

Voltage Range: 3.3V ~ 100V

DO-41 Type : IN4728A ~ IN4764A
1.0W ZENER DIODE

☐ **FEATURE:**

- Low Inductance
- 1.0 Watt Power Dissipation
- $\pm 5\%$ Standard V_z Tolerance
- Glass Passivated Die Construction
- 3.3V ~ 100V Nominal Zener Diode
- Typical IR Less Than $5.0 \mu A$ Above 11V
- Plastic Case Material Has UL Flammability Classification Rating 94V-0

☐ **MECHANICAL CHARACTERISTICS:**

- Case: DO-41 Molded Plastic
- Polarity: Cathode Band
- Marking: Type Number
- Weight: 0.35 grams (approx)
- Terminals: Axial Leads, Solderable per MIL-STD-202, Method 208.
- Lead Free: For RoHS / Lead Free Version. Add “-LF” Suffix to part Number,

☐ **DIMENSION:**

DO-41 Type (mm)		
Dim	Min	Max
A	25.4	---
B	4.06	5.21
C	0.71	0.87
D	2.0	2.72

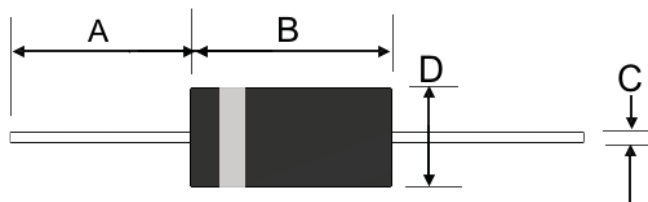


Figure:



☐ **Maximum Ratings and Electrical Characteristics Single Diode @ $T_A = 25^\circ C$ unless otherwise specified**

Characteristics	Symbol	Value	Unit
DC Power Dissipation at $T_L = 50^\circ C$ (note 1)	P_d	1	W
Derate above $50^\circ C$		6.67	mW/ $^\circ C$
Forward Voltage @ $I_F = 200mA$	V_F	1.2	V
Thermal Resistance Junction to Ambient (note 2)	$R_{\theta JA}$	170	K/W
Operating and Storage Temperature Range	T_j, T_{STG}	-60 to +150	$^\circ C$

Note: 1 Measured at lead length 3/8" (9.5mm) from body.

Note: 2 Valid provided that leads are kept at ambient temperature at a distance of 10mm from the case.

SINLOON®

※美隆公司產品規格及其特性參數的改變或更新恕不另行通知。

※Mayloon characteristic parameters of electronic product specification changes or updates without notice to improve。

□ Electrical Characteristics Single Diode @T_A=25°C unless otherwise specified

Type Number (Note 1)	Moinal Vol.(Note 2) V _Z @I _{ZT} (V)	Test Current I _{ZT} (mA)	Maximum Zener Impedance (note 3)			Leakage Current @V _R		Max.DC Current I _{ZM} (mA)	Max Surge Current 8.3ms I _{ZS} (mA)
			Z _{YT} @I _{ZT} (Ω)	Z _{ZK} @I _{ZK} (Ω)	I _{ZK} (mA)	I _R (μA)	(V)		
IN4728A	3.3	76	10	400	1.0	100	1.0	276	1380
IN4729A	3.6	69	10	400	1.0	100	1.0	252	1260
IN4730A	3.9	64	9.0	400	1.0	50	1.0	234	1190
IN4731A	4.3	58	9.0	400	1.0	10	1.0	217	1070
IN4732A	4.7	53	8.0	500	1.0	10	1.0	193	970
IN4733A	5.1	49	7.0	550	1.0	10	1.0	178	890
IN4734A	5.6	45	5.0	600	1.0	10	2.0	162	810
IN4735A	6.2	41	2.0	700	1.0	10	3.0	146	730
IN4736A	6.8	37	3.5	700	1.0	10	4.0	133	660
IN4737A	7.5	34	4.0	700	0.5	10	5.0	121	605
IN4738A	8.2	31	4.5	700	0.5	10	6.0	110	550
IN4739A	9.1	28	5.0	700	0.5	10	7.0	100	500
IN4740A	10	25	7.0	700	0.25	10	7.6	91	454
IN4741A	11	23	8.0	700	0.25	5.0	8.4	83	414
IN4742A	12	21	9.0	700	0.25	5.0	9.1	76	380
IN4743A	13	19	10	700	0.25	5.0	9.9	69	344
IN4744A	15	17	14	700	0.25	5.0	11.4	61	304
IN4745A	16	16	16	700	0.25	5.0	12.2	57	285
IN4746A	18	14	20	750	0.25	5.0	13.7	50	250
IN4747A	20	12.5	22	750	0.25	5.0	15.2	45	225
IN4748A	22	11.5	23	750	0.25	5.0	16.7	41	205
IN4749A	24	10.5	25	750	0.25	5.0	18.2	38	190
IN4750A	27	9.5	35	750	0.25	5.0	20.6	34	170
IN4751A	30	8.5	40	1000	0.25	5.0	22.8	30	150
IN4752A	33	7.5	45	1000	0.25	5.0	25.1	27	135
IN4753A	36	7.0	50	1000	0.25	5.0	27.4	25	125
IN4754A	39	6.5	60	1000	0.25	5.0	29.7	23	115
IN4755A	43	6.0	70	1500	0.25	5.0	32.7	22	110
IN4756A	47	5.5	80	1500	0.25	5.0	35.8	19	95
IN4757A	51	5.0	95	1500	0.25	5.0	38.8	18	90
IN4758A	56	4.5	110	2000	0.25	5.0	42.6	16	80
IN4759A	62	4.0	125	2000	0.25	5.0	47.1	14	70
IN4760A	68	3.7	150	2000	0.25	5.0	51.7	13	65
IN4761A	75	3.3	175	2000	0.25	5.0	56.0	12	60
IN4762A	82	3.0	200	3000	0.25	5.0	62.2	11	55
IN4763A	91	2.8	250	3000	0.25	5.0	69.2	10	50
IN4764A	100	2.5	350	3000	0.25	5.0	76.0	9.0	45

Note:

1. Type numbers listed have standard tolerance on the nominal zener voltage of ±5%.
2. Measured under thermal equilibrium and DC (I_{ZT}) test conditions.
3. The Zener impedance is derived from the 60Hz AC voltage which results when an AC current having an RMS value equal to 10% of the Zener current (I_{ZT} of I_{ZK}) is superimposed on I_{ZT} of I_{ZK}. Zener impedance is measured at two points to insure sharp knee on the breakdown curve and to eliminate unstable units.

SINLOON®

SINLOON®

穩壓二極管

Voltage Range: 3.3V ~ 100V

DO-41 Type : IN4728A ~ IN4764A

1.0W ZENER DIODE

COMMON PACKING INFORMATION:

Package	Type	Packing Quantity	Carton Quantity	Apporx Gross Weight
TAPE & REEL	DO-41	5000 Tape & Reel	25000 Ctn	13 Kgs
TAPE & BOX	DO-41	5000 Tape Box	50000 Ctn	21 Kgs
BULK	DO-41	1000 Plastic bag	50000 Ctn	19.5 Kgs

Reel Diameter : Fig-1

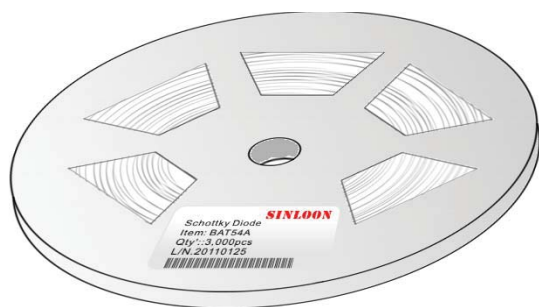


Fig-1

Inner Box: Fig-2



Fig-2

Carton Pack Fig-3



Fig-3

※美隆公司產品規格及其特性參數的改變或更新恕不另行通知。

※Mayloon characteristic parameters of electronic product specification changes or updates without notice to improve

