

SWITCHING DIODE

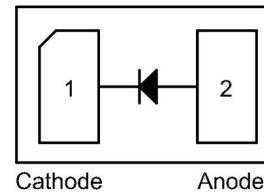
Features and benefits

- Extremely small surface mounting type.
- High Speed.

Application information

- High speed switching

Schematic & Pin configuration



Ordering information

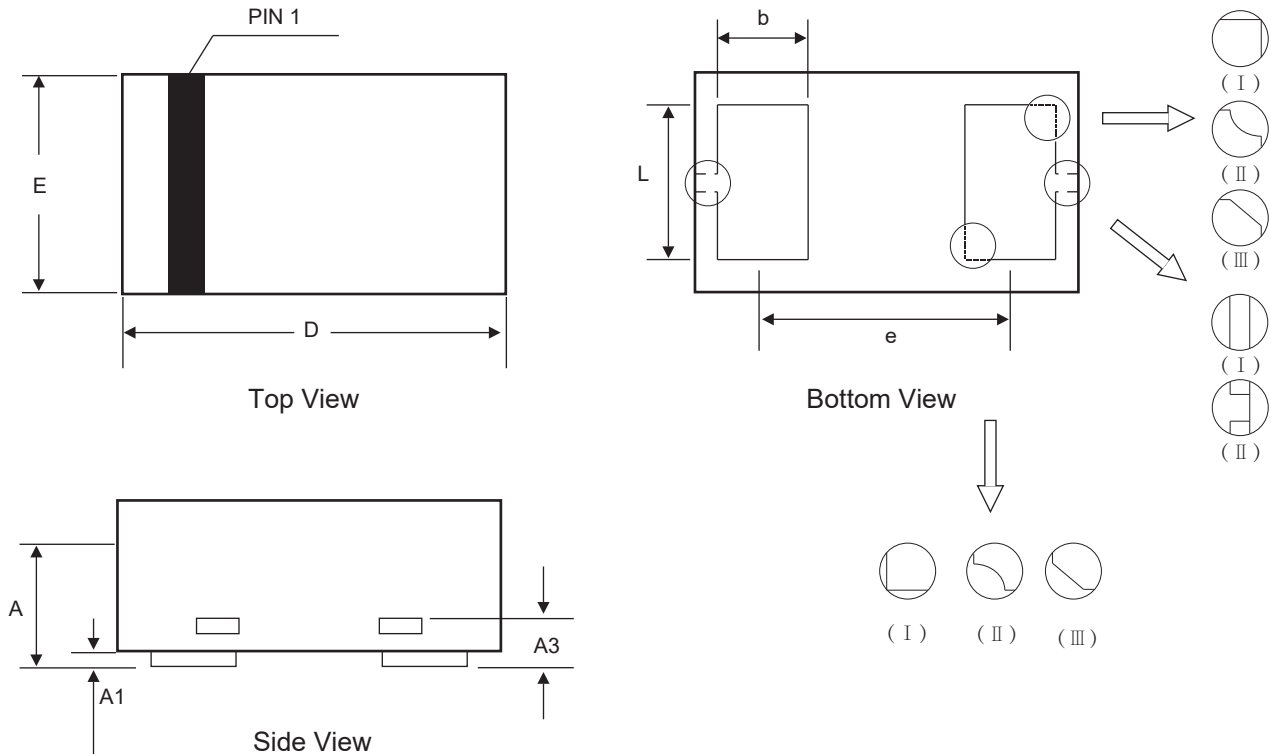
Device	Package	Packaging
1N4148DNG2	DFN1006-2	10000/Tape & Reel

Maximum Ratings (T_A = 25 °C, unless otherwise specified)

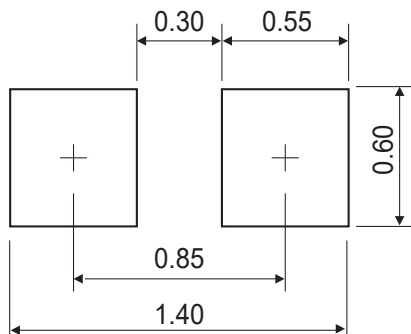
Parameter	Symbol	Value	Unit
Peak reverse voltage	V _{RM}	90	V
DC reverse voltage	V _R	80	V
Peak forward current	I _{FM}	225	mA
Mean rectifying current	I _O	100	mA
Surge current (1s)	I _{SURGE}	500	mA
Junction temperature	T _j	125	°C
Storage temperature	T _{stg}	-40 to +125	°C

Electrical Characteristics (T_A = 25 °C, unless otherwise specified)

Characteristic	Symbol	Max	Unit
Forward voltage (I _F =100mA)	V _F	1.2	V
Reverse current (V _R =80V)	I _R	0.1	uA
Capacitance between terminals (V _R =0.5V,f=1MHz)	C _T	3	pF
Reverse recovery time (V _R =6V,I _F =10mA,R _L =100Ω)	T _{rr}	4	nS

PACKAGE OUTLINE DIMENSIONS
DFN1006-2


Symbol	Dimensions in Millimeters		
	Min.	Typ.	Max.
A	0.340	0.450	0.530
A1	0.000	0.020	0.050
A3	0.125 Ref.		
D	0.950	1.000	1.075
E	0.550	0.600	0.675
b	0.200	0.250	0.300
L	0.450	0.500	0.550
e	0.650 BSC		

Recommended PCB Layout (Unit: mm)

Notes:

This recommended land pattern is for reference purposes only. Please consult your manufacturing group to ensure your PCB design guidelines are met.