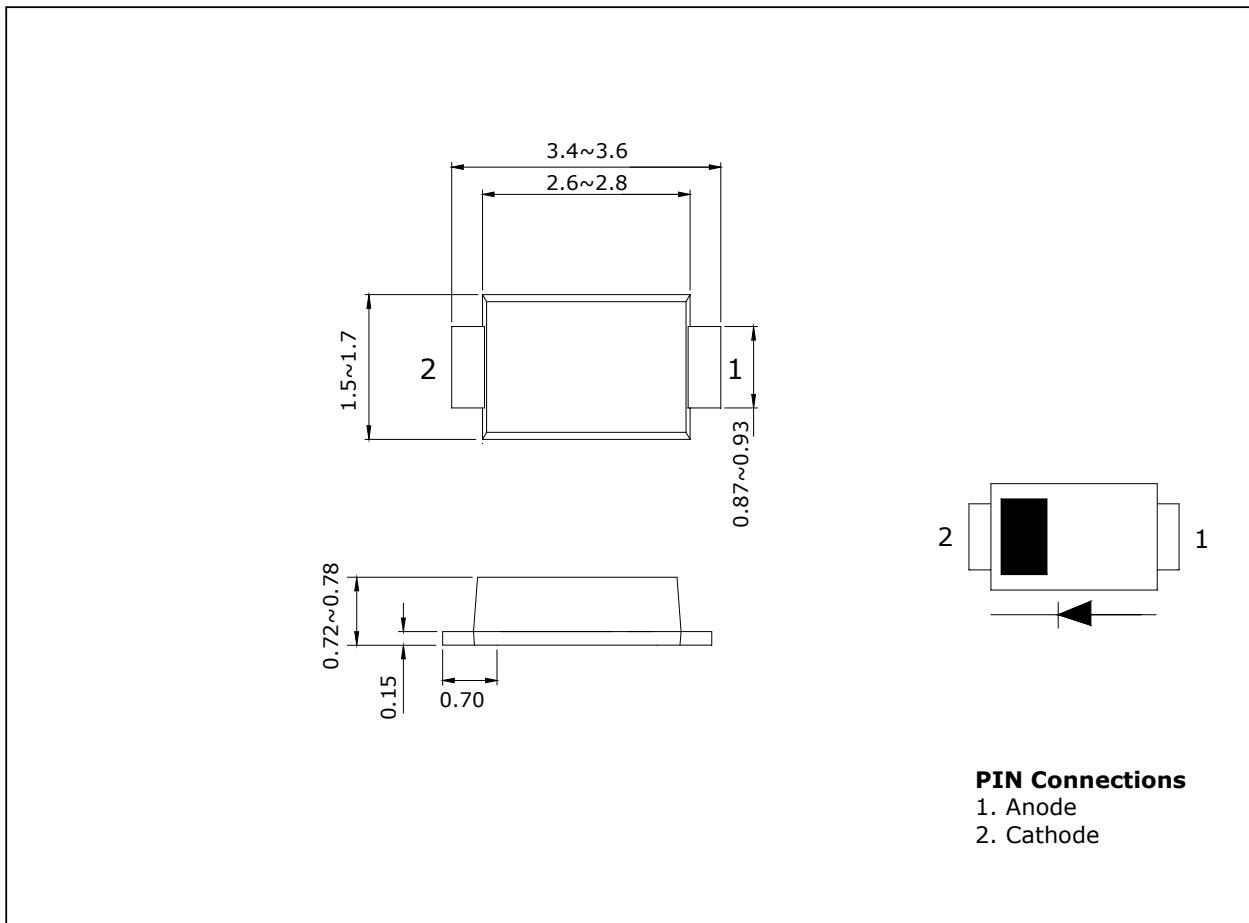


Features

- Low power rectified
- Silicon epitaxial type
- High reliability
- Low I_R ($I_R=10\mu A$ Typ)

Ordering Information

Type No.	Marking	Package Code
SDB1040	1A4	SOD-123

Outline Dimensions**unit : mm****PIN Connections**

1. Anode
2. Cathode

Absolute maximum ratings

Ta=25°C

Characteristic	Symbol	Rating	Unit
Peak reverse voltage	V _{RM}	40	V
Reverse voltage	V _R	40	V
Average Rectified Forward current	I _F	1.0	A
Non-repetitive peak surge forward current	I _{FSM}	3	A
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55~150	°C

Electrical Characteristics

Ta=25°C

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward voltage	V _F	I _F =1A	-	0.5	0.55	V
Reverse current	I _R	V _R =40V	-	-	200	μA
Total capacitance	C _T	V _R =10V, f=1MHz	-	50	-	pF

* Pulse Test : Pulse width ≤ 250us, Duty ≤ 2%

Electrical Characteristic Curves

Fig. 1 Forward Characteristics

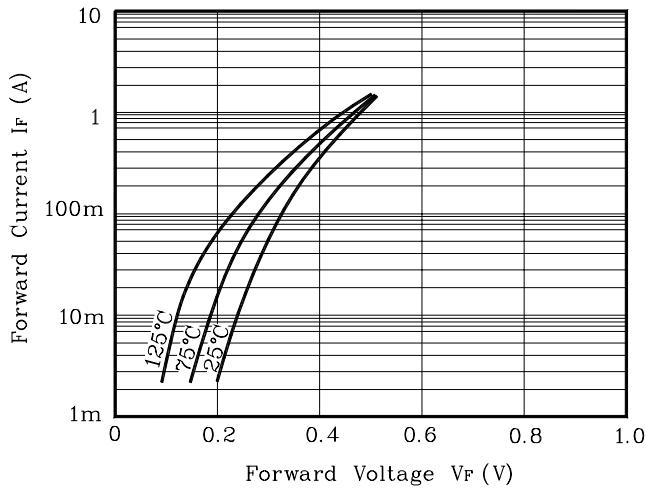


Fig. 2 Reverse Characteristics

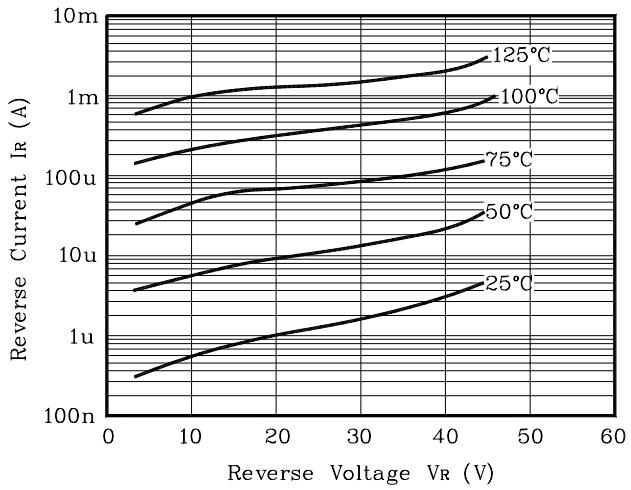


Fig. 3 Total Capacitance

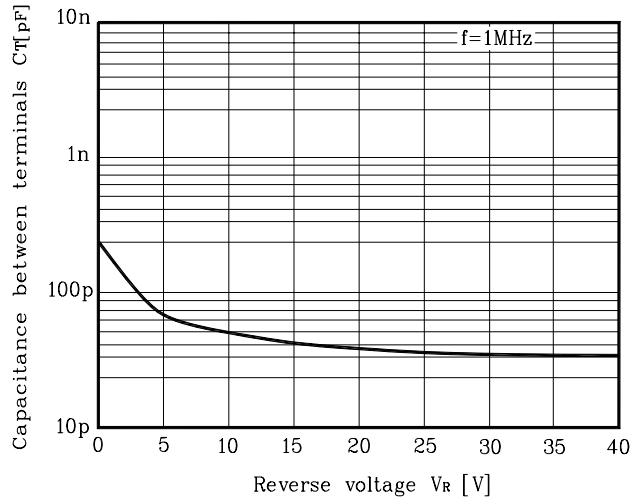
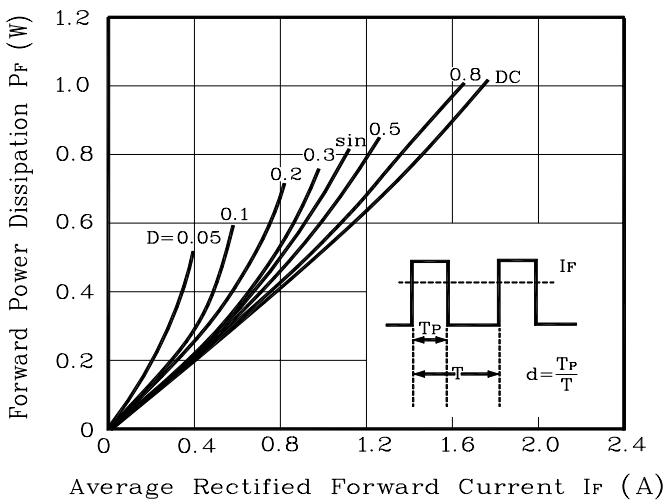


Fig. 4 $I_F - P_F$ Forward Power dissipation



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