

Features

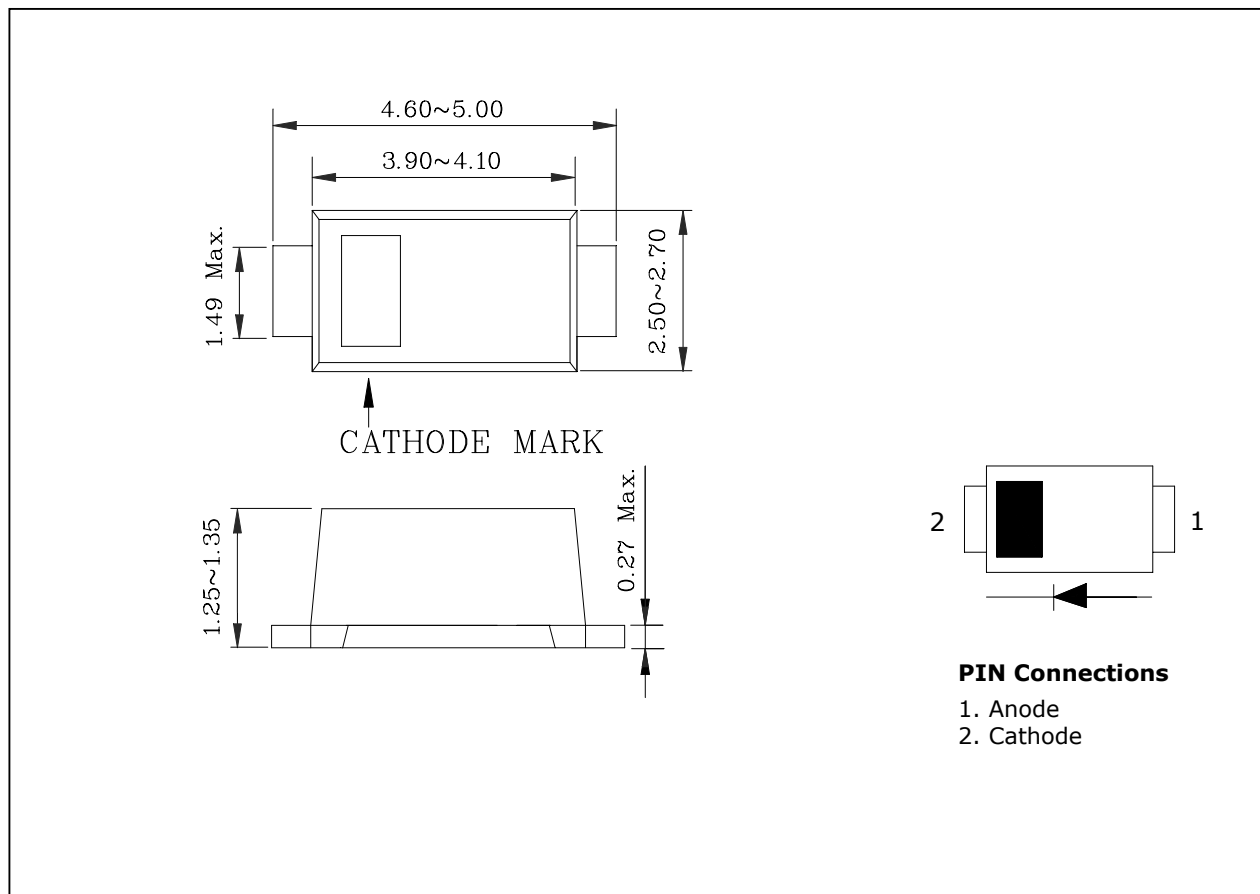
- Switching type power supply application
- Converter & Chopper Application
- Low reverse current : $I_R=10 \mu A(\text{Typ.}) @ V_R=40V$

Ordering Information

Type No.	Marking	Package Code
SDB30A40	3A40	SOD-106

Outline Dimensions

unit : mm



PIN Connections

1. Anode
2. Cathode

SDB30A40

Absolute Maximum Ratings

Ta=25°C

Characteristic	Symbol	Rating	Unit
Reverse voltage	V _R	40	V
Forward current	I _F	3	A
Peak forward current	I _{FSM} [*]	70	A
Junction temperature	T _J	150	°C
Storage temperature range	T _{stg}	-55 ~ 150	°C

* : Non-repetitive one cycle surge current (60Hz)

Electrical Characteristics

Ta=25°C

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward voltage	V _F	I _F =3A	-	0.5	0.55	V
Reverse current	I _R	V _R =40V	-	-	0.5	mA
Thermal Resistance	R _{th(j-a)}	When mounted on a glass epoxy board	-	-	76	°C/W
Total capacitance	C _T	V _R = 10V, f=1MHz	-	110	-	pF

Electrical Characteristic Curves

Fig. 1 $I_F - V_F$

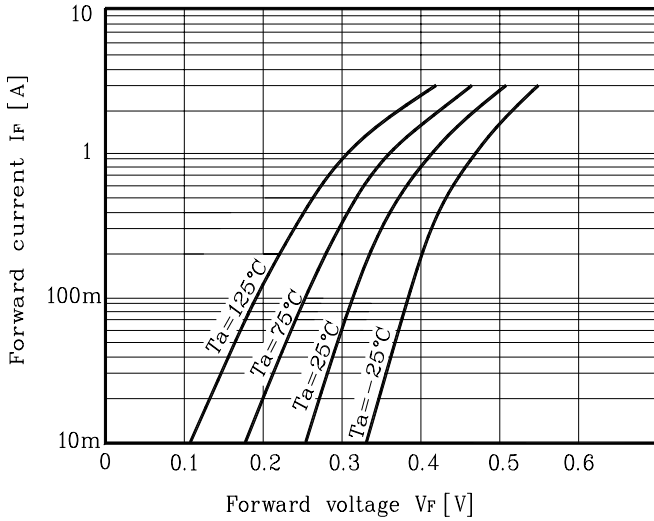


Fig. 2 $I_R - V_R$

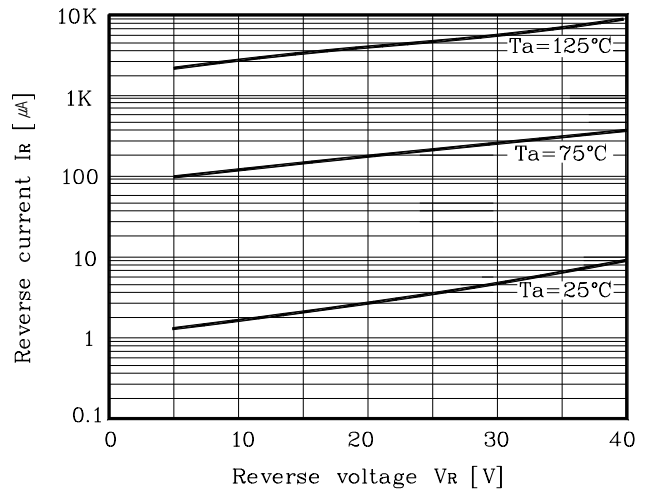


Fig. 3 $C_T - V_R$

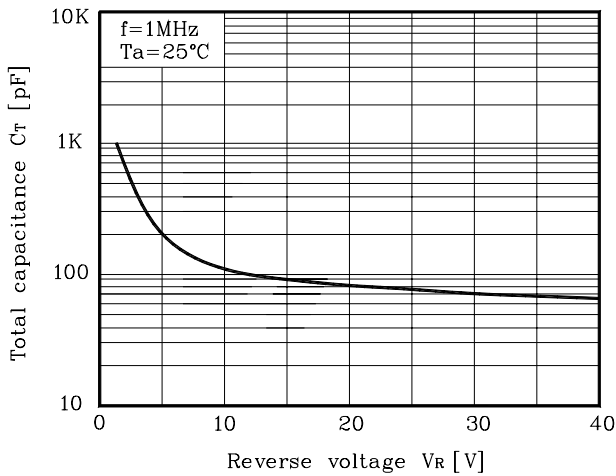
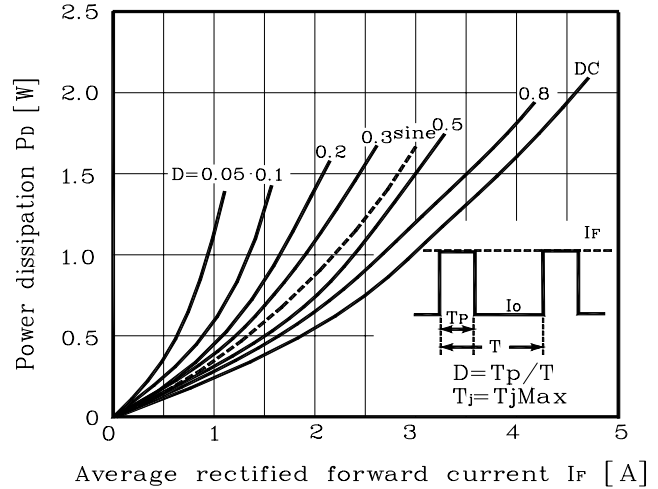


Fig. 4 $P_D - I_F$



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