

Features

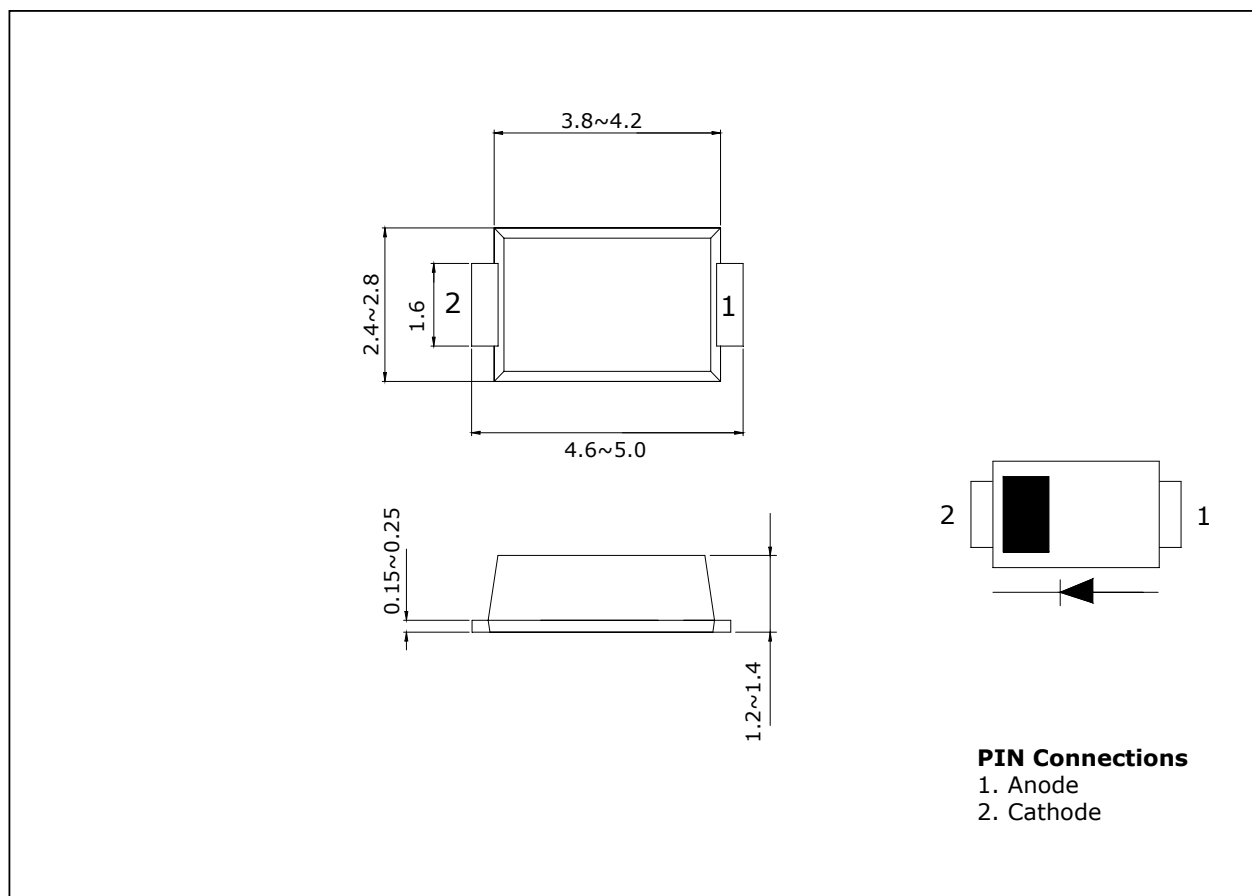
- Switching type power supply application
- Converter & Chopper Application
- Low IR (IR=10uA Typ)

Ordering Information

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

Outline Dimensions

unit : mm



SDB30A40

Absolute maximum ratings

Ta=25°C

Characteristic	Symbol	Rating	Unit
Reverse voltage	V _R	40	V
Forward current	I _F	3	A
Non-repetitive peak forward current	I _{FSM}	70	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 =3A	-	0.5	0.55	V
Reverse current	I _R	V _R =40V	-	-	0.5	mA
Thermal Resistance	R _{θJA}	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 Forward Characteristics

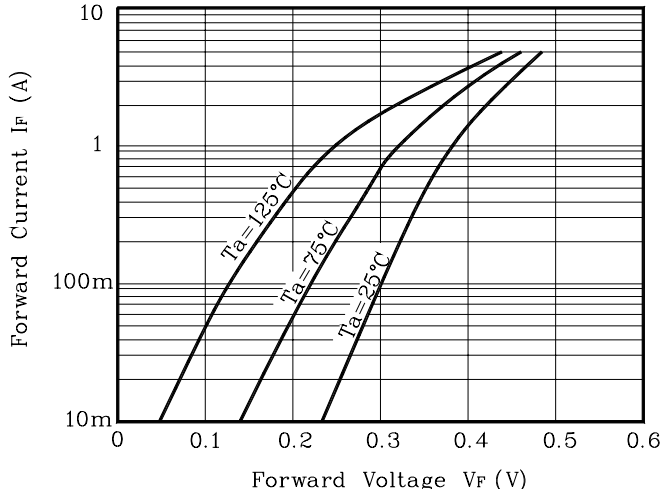


Fig. 2 Reverse Characteristics

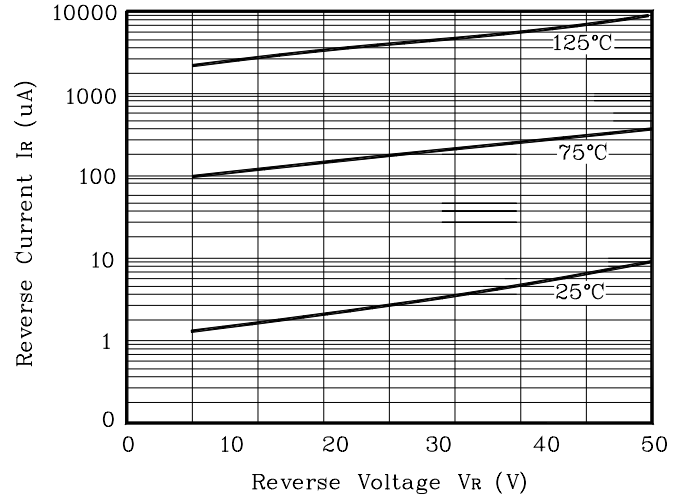


Fig. 3 Total Capacitance

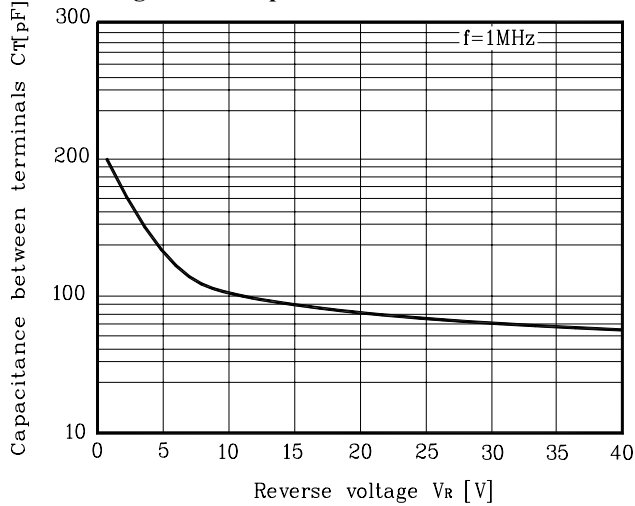
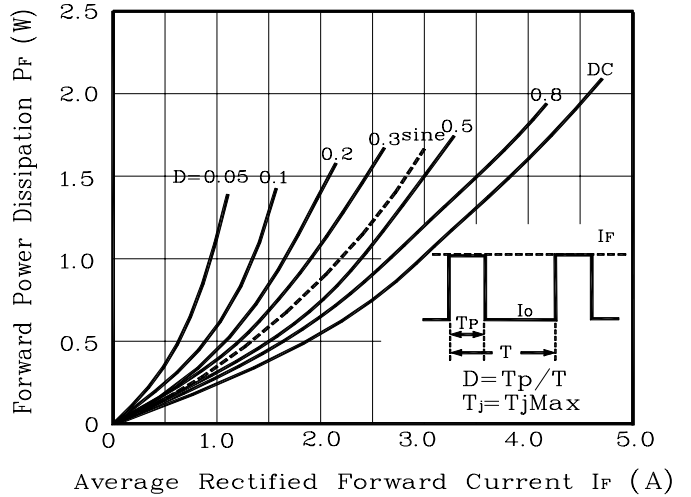


Fig. 4 $I_F - P_F$ Forward Power dissipation



These AUK products are intended for usage in general electronic equipments(Office and communication equipment, measuring equipment, domestic electrification, etc.).

Please make sure that you consult with us before you use these AUK products in equipments which require high quality and/or reliability, and in equipments which could have major impact to the welfare of human life(atomic energy control, airplane, spaceship, traffic signal, combustion central, all types of safety device, etc.).

AUK cannot accept liability to any damage which may occur in case these AUK products were used in the mentioned equipments without prior consultation with AUK.