

**Features**

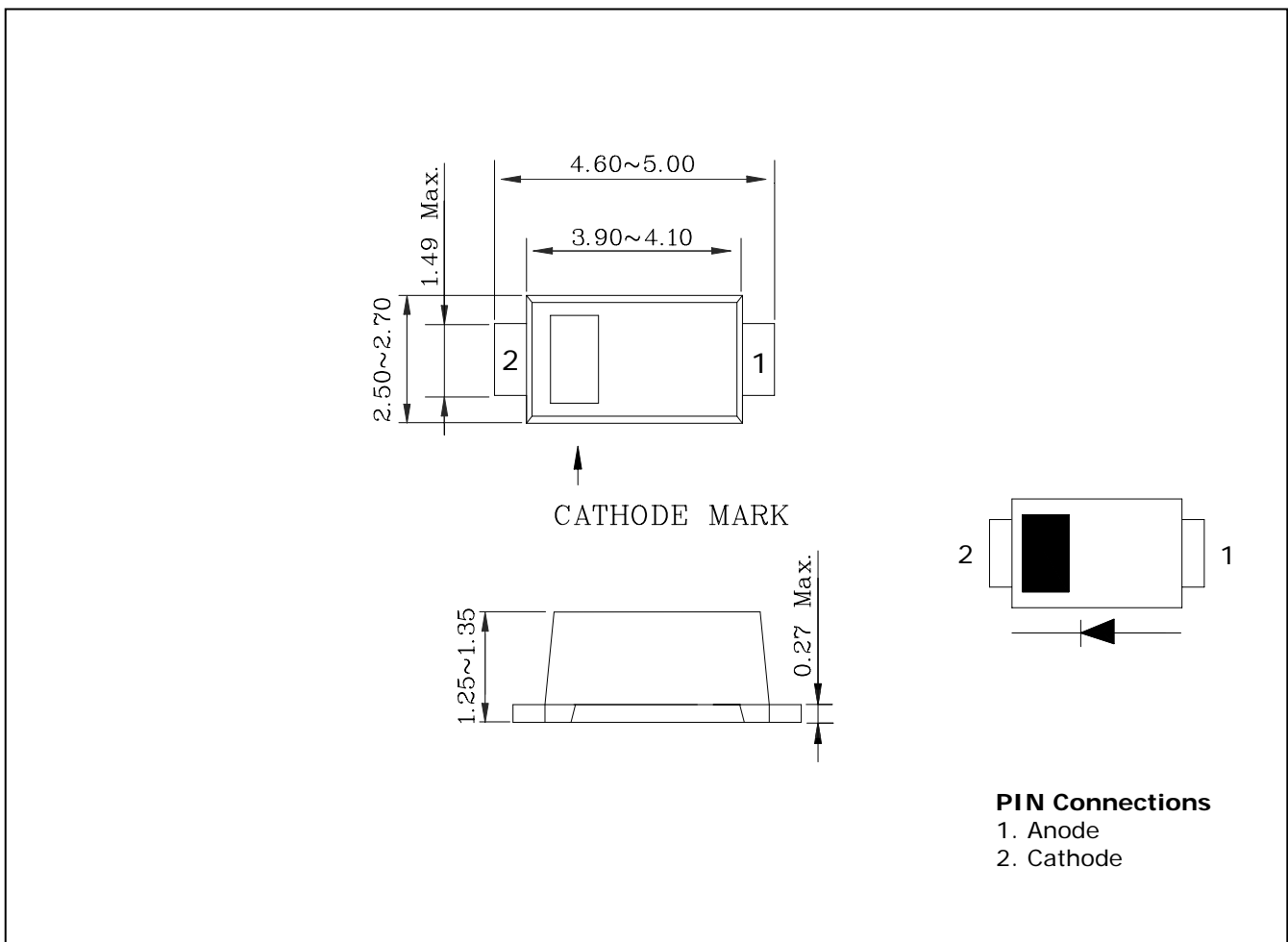
- Low reverse current :  $I_R = \text{Typ. } 10 \mu\text{A} (@ V_R=40\text{V})$
- Low forward voltage :  $V_F = \text{max } 0.55\text{V} (@ I_F=1\text{A})$
- High speed switching application

**Ordering Information**

Type No.	Marking	Package Code
SDB10A40	1A40	SOD-106

**Outline Dimensions**


**unit : mm**



**Absolute maximum ratings**

Ta=25°C

Characteristic	Symbol	Rating	Unit
Peak reverse voltage	$V_{RM}$	40	V
Reverse voltage	$V_R$	40	V
Forward current	$I_F$	1.0	A
Non-repetitive peak forward current *	$I_{FSM}$	30	A
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-55 ~ 150	°C

\* 60Hz for 1 **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	$\mu A$
Total capacitance	$C_T$	$V_R=10V, f=1 MHz$	-	50	-	pF

Electrical Characteristic Curves

Fig. 1 Forward Characteristics

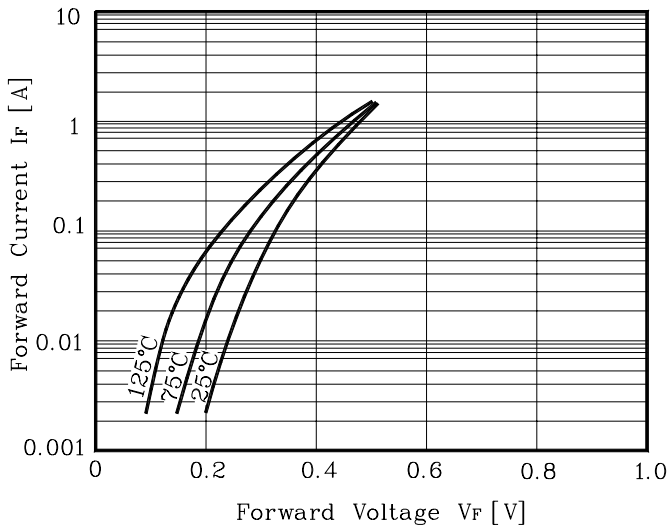


Fig. 2 Reverse Characteristics

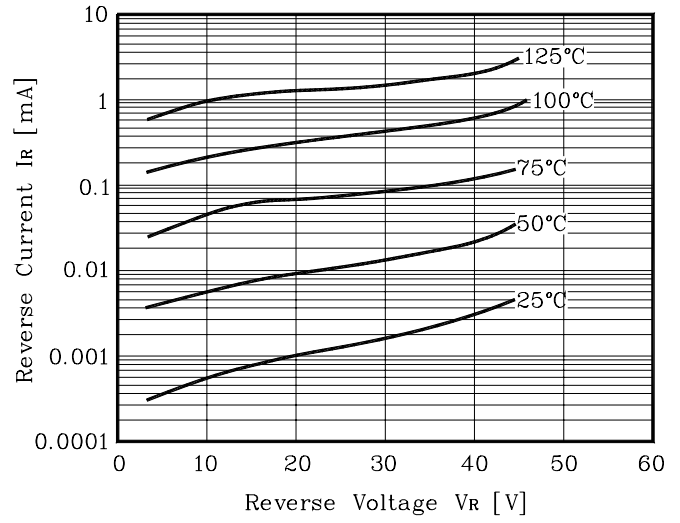
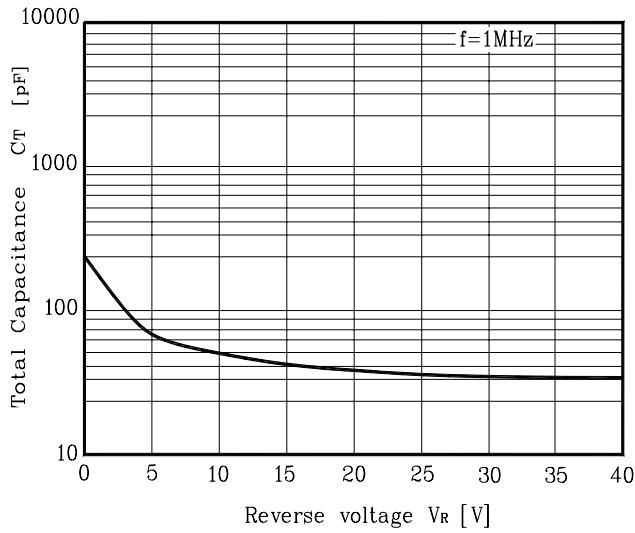


Fig. 3 Total Capacitance



**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.).**

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