

**SB0030-01A**

Schottky Barrier Diode

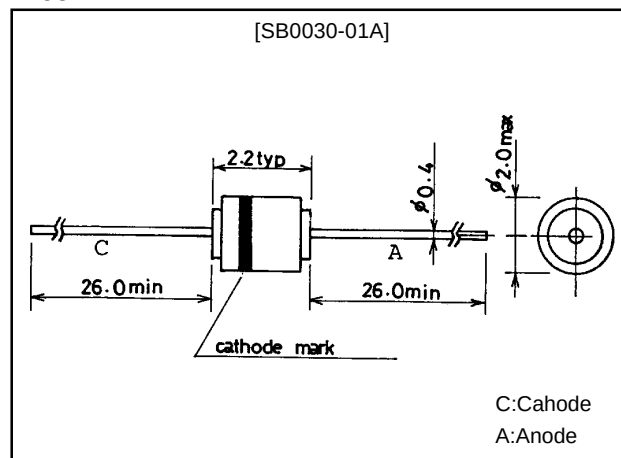
10V, 30mA Detection Applications**Features**

- Glass sleeve structure.
- Detection efficiency : 70%.
- Small size (Half the size of the DO-35 heretofore in use).

Package Dimensions

unit:mm

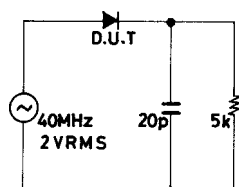
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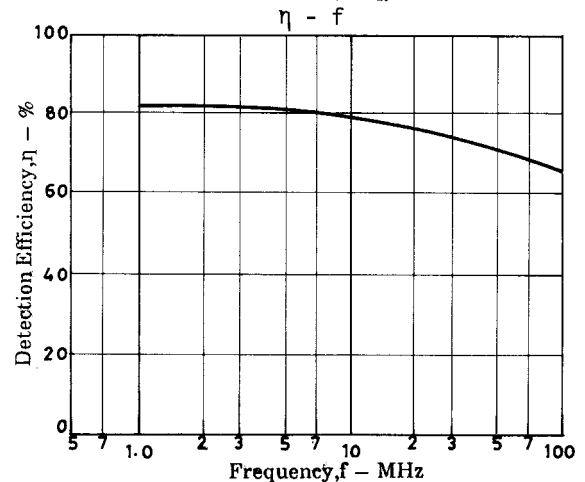
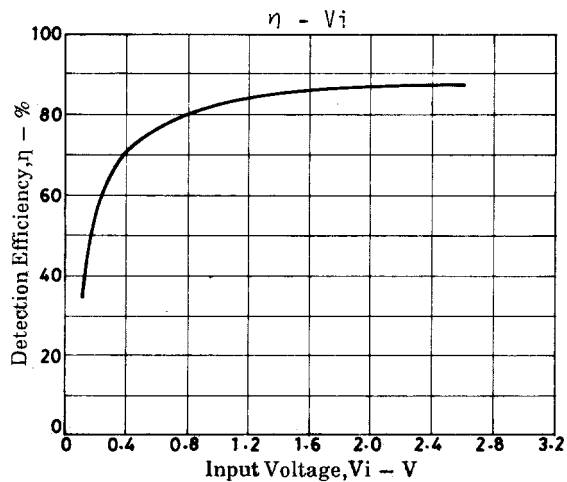
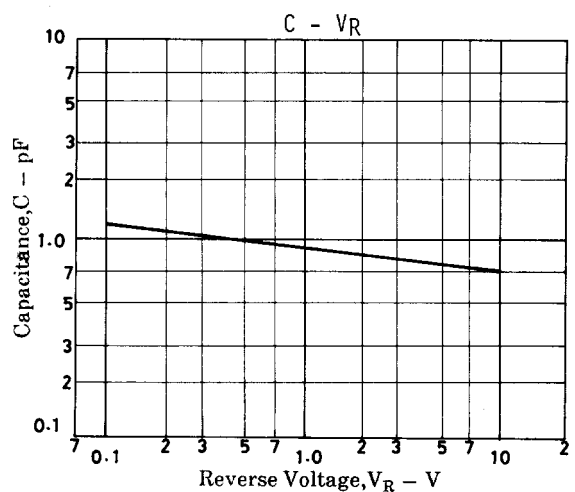
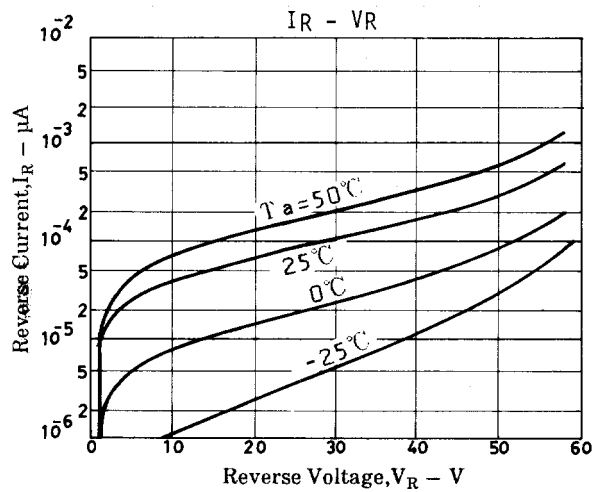
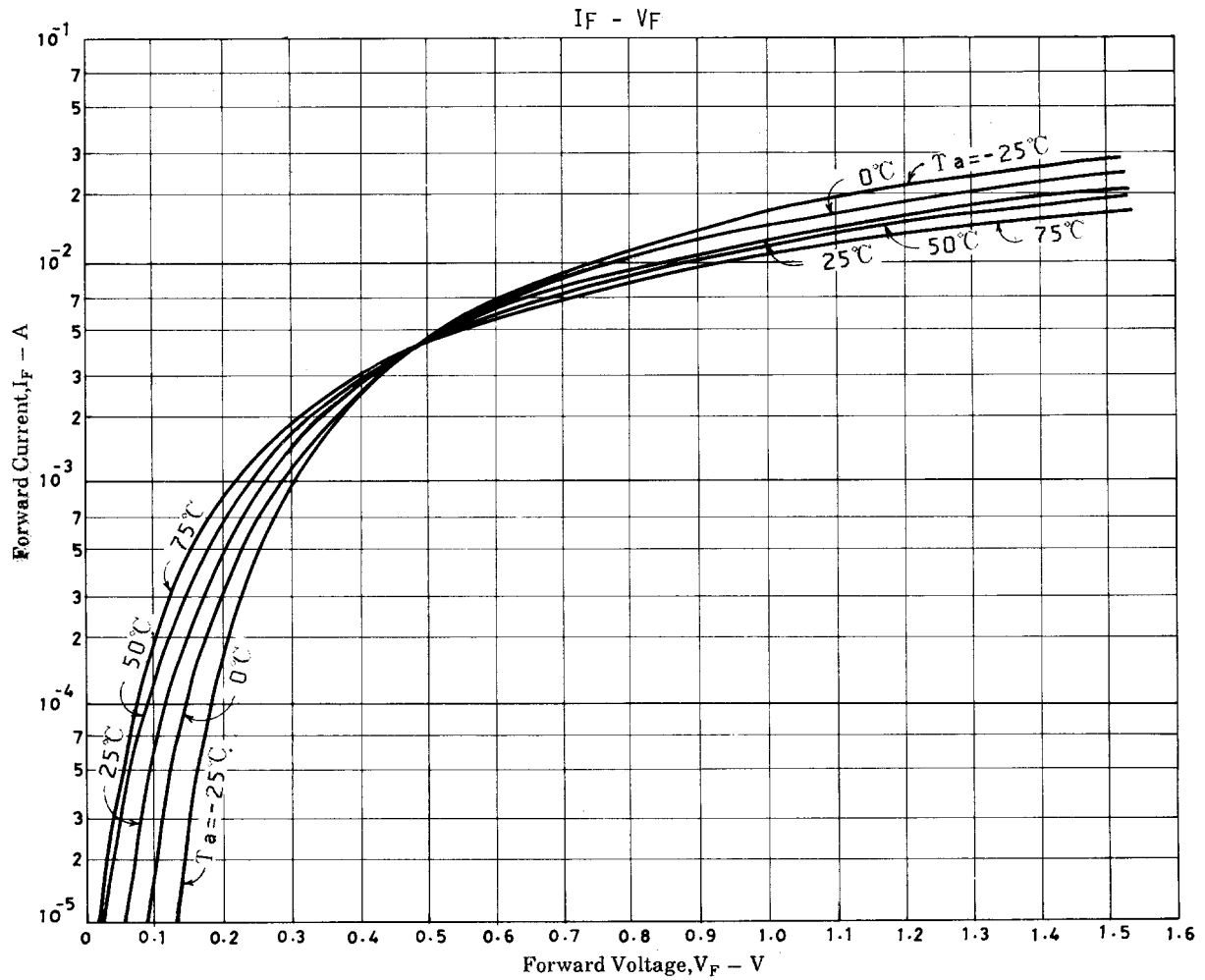
**Specifications****Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$**

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	V_R		10	V
Average Rectified Current	I_O		30	mA
Junction Temperature	T_j		100	$^\circ\text{C}$
Storage Temperature	T_{stg}		-55 to +100	$^\circ\text{C}$

Electrical Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Forward Current	I_F	$V_F=1.0\text{V}$	4.5			mA
Reverse Current	I_R	$V_R=6\text{V}$			70	μA
Capacitance	C	$V_R=1\text{V}$, $f=1\text{MHz}$			1.5	pF
Detection Efficiency	η	$f=40\text{MHz}$	70			%

Detection Efficiency CircuitUnit (resistance : Ω , capacitance : F)



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