

# SDB0230G

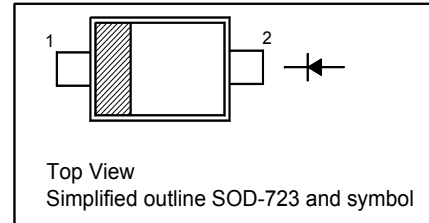
## Schottky Barrier Diode

### Features

- Low forward voltage drop
- Low reverse current
- Extremely fast switching speed

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



### Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	30	V
Average Rectified Forward Current	$I_{F(AV)}$	200	mA
Non-repetitive Peak Forward Surge Current( $t = 8.3 \text{ ms}$ )	$I_{FSM}$	1	A
Power Dissipation	$P_D$	200	mW
Operating and Storage Temperature Range	$T_J, T_{stg}$	- 55 to + 125	$^\circ\text{C}$

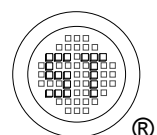
### Thermal Characteristics

Parameter	Symbol	Max.	Unit
Thermal Resistance from Junction to Ambient <sup>1)</sup>	$R_{\theta JA}$	500	$^\circ\text{C/W}$

<sup>1)</sup> Device mounted on FR-4 substrate PC board, 2oz copper, with minimum recommended pad layout.

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

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 100 \mu\text{A}$	$V_{(BR)R}$	30	-	V
Forward Voltage at $I_F = 10 \text{ mA}$ at $I_F = 200 \text{ mA}$	$V_F$	- -	0.325 0.5	V
Reverse Current at $V_R = 10 \text{ V}$	$I_R$	-	10	$\mu\text{A}$



## Electrical Characteristics Curves

Fig 1. Reverse Characteristics Curve

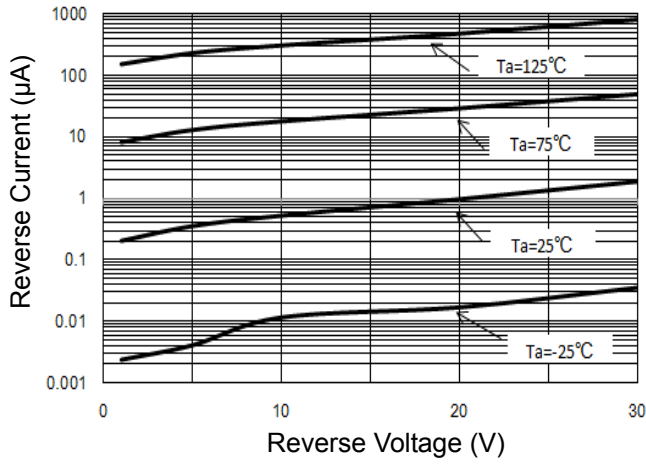


Fig 2. Forward Characteristics Curve

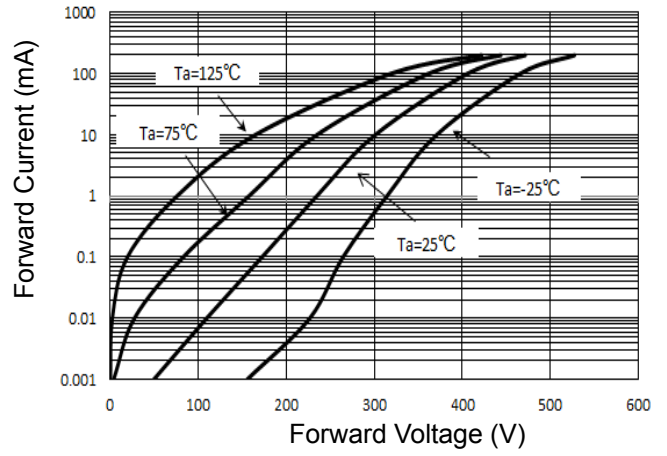


Fig 3. Junction Capacitance

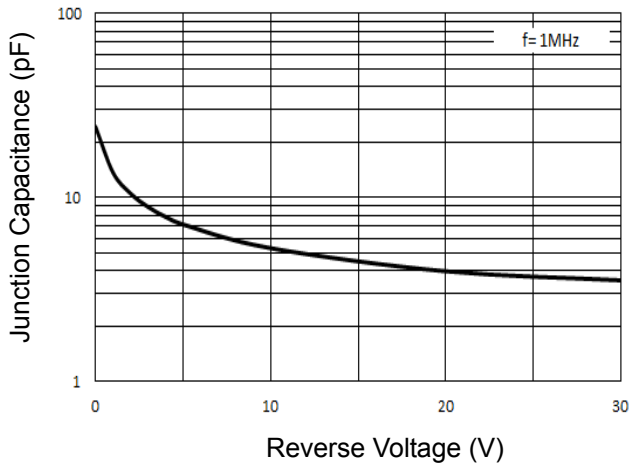
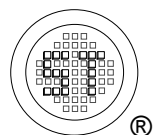
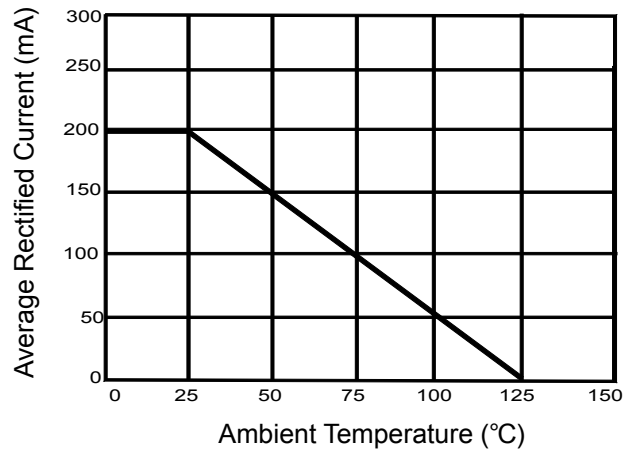


Fig 4. Average Rectified Current Derating Curve

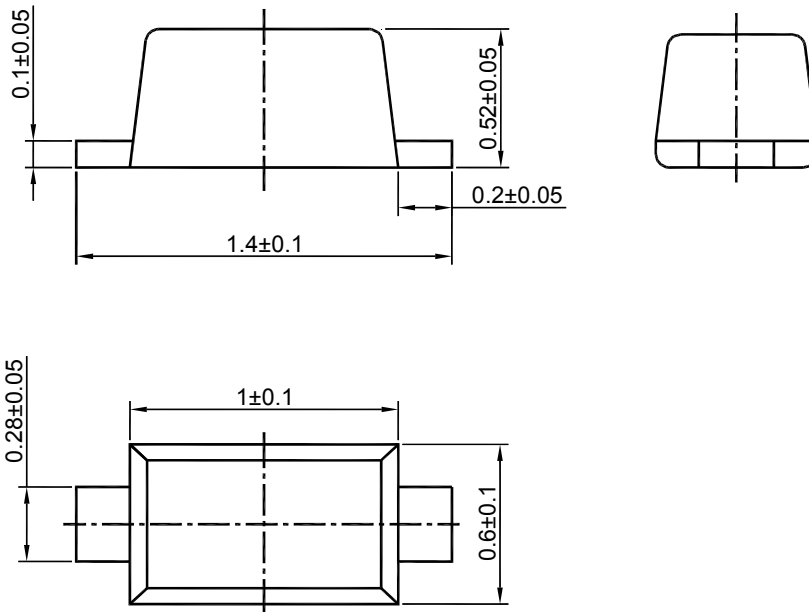


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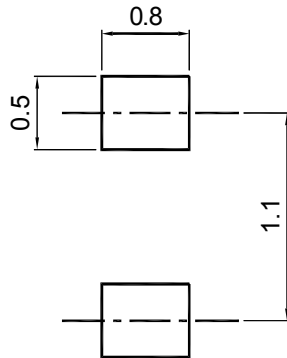
## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-723



### Recommended Soldering Footprint



### Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
SOD-723	8	$2 \pm 0.1$	$0.079 \pm 0.004$	178	7	5,000 10,000

### Marking information

" 7C " = Part No.

" III " = Cathode line

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