

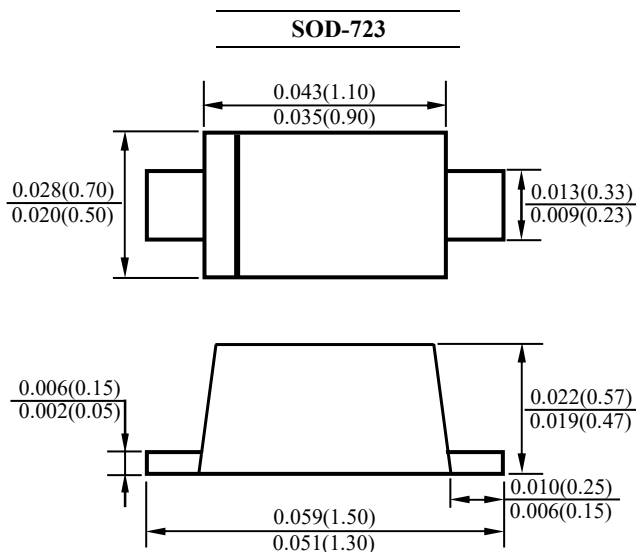
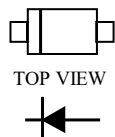


RB0230GH

SCHOTTKY DIODES

FEATURES

- Low forward voltage
- Fast switching
- Suffix "H" indicates Halogen-free parts, ex. RB0230GH



Dimensions in inch and (millimeter)

Maximum Ratings@ $T_A = 25\text{ }^\circ\text{C}$

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 (at $t_p = 8.3\text{ ms}$)	I_{FSM}	1	A
Power Dissipation	P_D	200	mW
Thermal Resistance from Junction to Ambient (Note 1)	$R_{\theta JA}$	500	$^\circ\text{C}/\text{W}$
Operating Junction Temperature Range	T_J	125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +125	$^\circ\text{C}$

Note:

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

Electrical Characteristics@ $T_A = 25\text{ }^\circ\text{C}$

Parameter	Conditions	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage	$I_R = 100\mu\text{A}$	$V_{(BR)R}$	30	-	V
Forward Voltage	$I_F = 10\text{mA}$	V_F	-	0.325	V
	$I_F = 200\text{mA}$		-	0.500	
Reverse Current	$V_R = 10\text{V}$	I_R	-	10	μA



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RATINGS AND CHARACTERISTIC CURVES

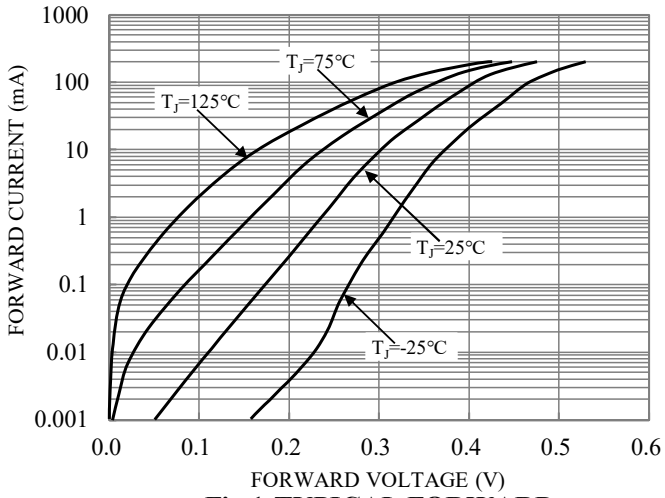


Fig.1-TYPICAL FORWARD CHARACTERISTICS

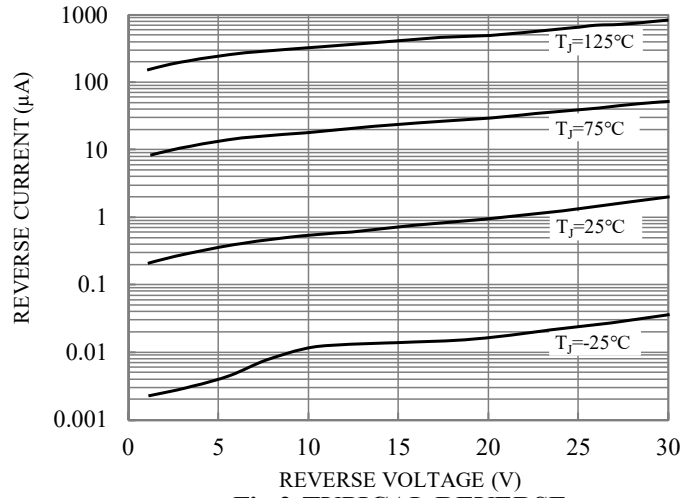


Fig.2-TYPICAL REVERSE CHARACTERISTICS

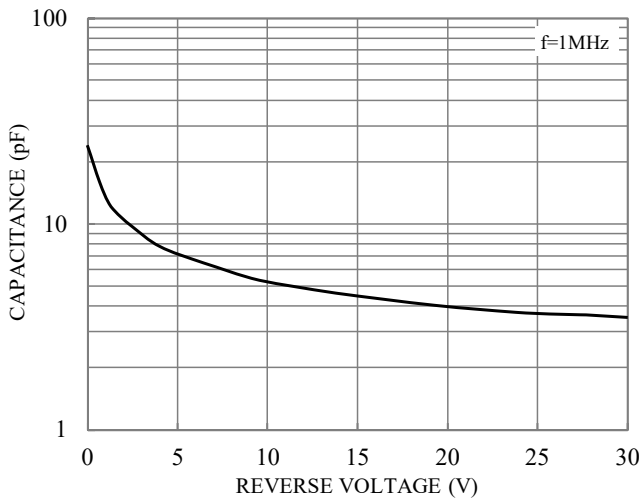


Fig.3-TYPICAL CAPACITANCE

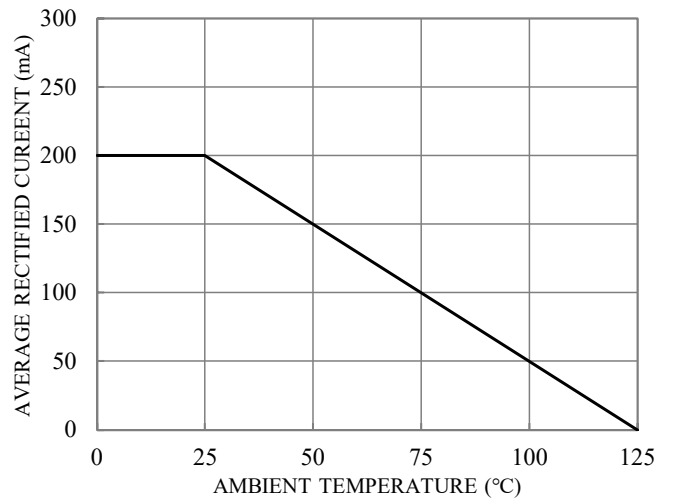


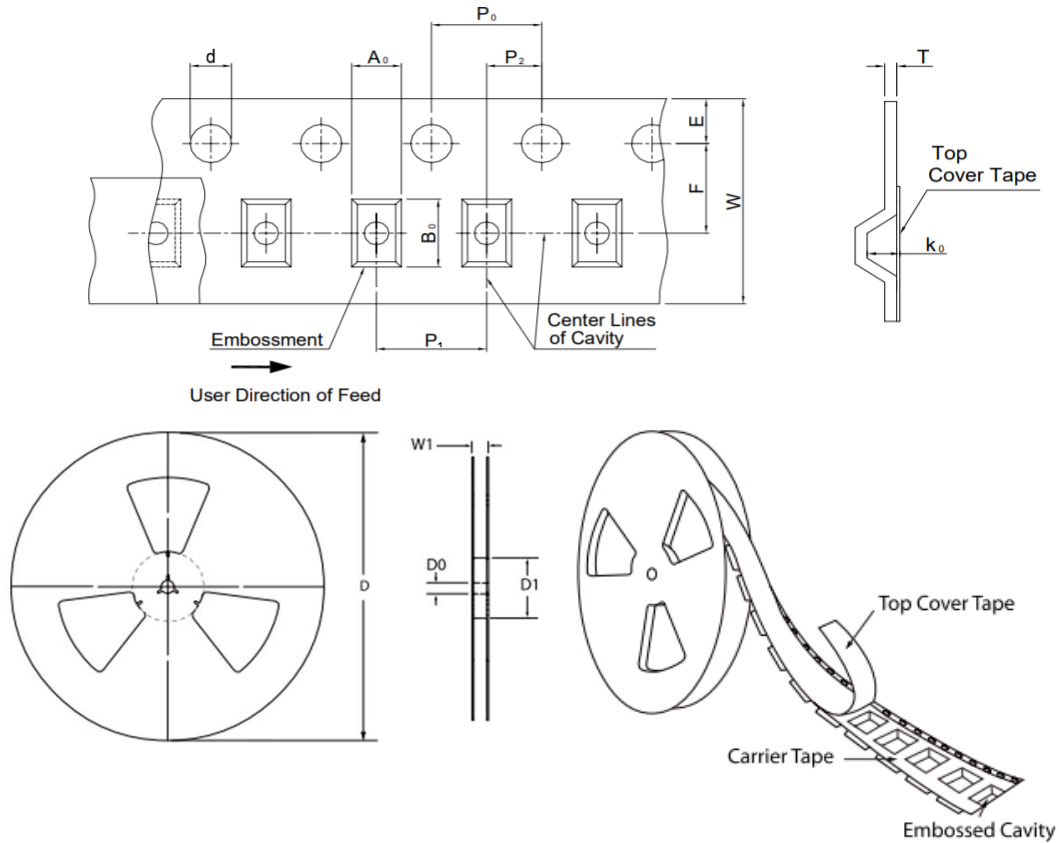
Fig.4-AVERAGE RECTIFIED CURRENT DERATING CURVE



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TAPE & REEL SPECIFICATION



Item	Symbol	SOD-723
Carrier width	A ₀	Note *
Carrier length	B ₀	
Carrier depth	K ₀	
Sprocket hole	d	1.50 ± 0.10
Reel outside diameter	D	178.00 ± 2.00
Feed hole width	D ₀	13.00 ± 0.50
Reel inner diameter	D ₁	MIN. 54.00
Sprocket hole position	E	1.75 ± 0.10
Punch hole position	F	3.50 ± 0.10
Sprocket hole pitch	P ₀	4.00 ± 0.10
Punch hole pitch	P ₁	2.00 ± 0.10
Embossment center	P ₂	2.00 ± 0.10
Overall tape thickness	T	MAX. 0.60
Tape width	W	8.00 ± 0.30
Reel width	W ₁	8.40 ± 1.50

Note *: A₀, B₀, and K₀ are determined by component size. The clearance between the components and the cavity must be within 0.05 mm min. to 0.5 mm max.

ORDER INFORMATION

Package	Reel Size	Quantity
SDO-723	7"	5,000

MARKING CODE

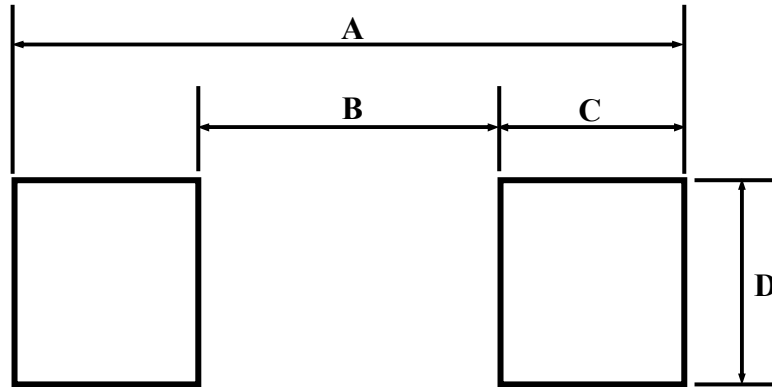
Part Number	Marking Code
RB0230GH	7C



RB0230GH

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SUGGESTED SOLDER PAD LAYOUT



Unit :mm

PACKAGE	A	B	C	D
SOD-723	1.60	0.60	0.50	0.80