

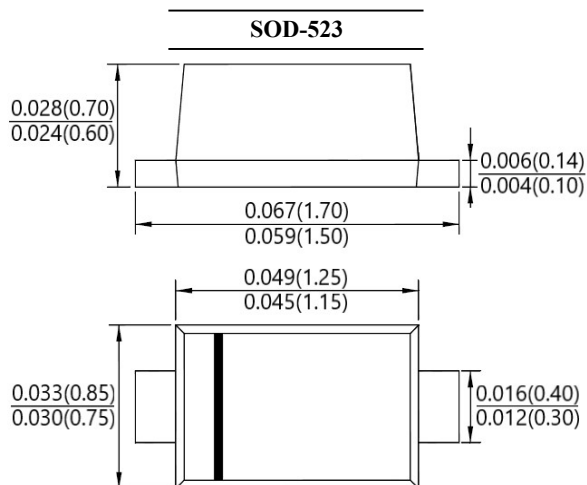


RB0240LRWTH

SCHOTTKY DIODES

FEATURES

- Very Low Forward Voltage
- Very Low Reverse Current
- Suffix "H" indicates Halogen-free parts, ex. RB0240LRWTH



Dimensions in inch and (millimeter)

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

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	40	V
Continuous Forward Current	I_F	200	mA
Repetitive Peak Forward Current ($t_p \leq 1\text{ s}$)	I_{FRM}	300	mA
Non-repetitive Peak Forward Current ($t=8.3\text{ ms}$ half sinewave)	I_{FSM}	1	A
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65 to +150	$^\circ\text{C}$

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

Parameter	Conditions	Symbol	Typ.	Max.	Unit
Forward Voltage	$I_F=0.1\text{ mA}$	V_F	-	0.22	V
	$I_F=1\text{ mA}$		-	0.29	
	$I_F=10\text{ mA}$		-	0.36	
	$I_F=100\text{ mA}$		-	0.50	
	$I_F=200\text{ mA}$		-	0.60	
Reverse Current	$V_R=25\text{ V}$	I_R	-	0.5	μA
Total Capacitance	$V_R=1\text{ V}$, $f=1\text{ MHz}$	C_T	-	20	pF



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RATINGS AND CHARACTERISTIC CURVES

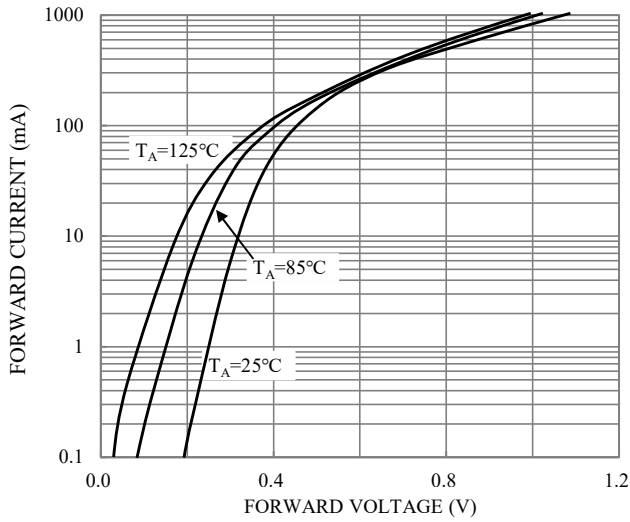


Fig.1-TYPICAL FORWARD CHARACTERISTICS

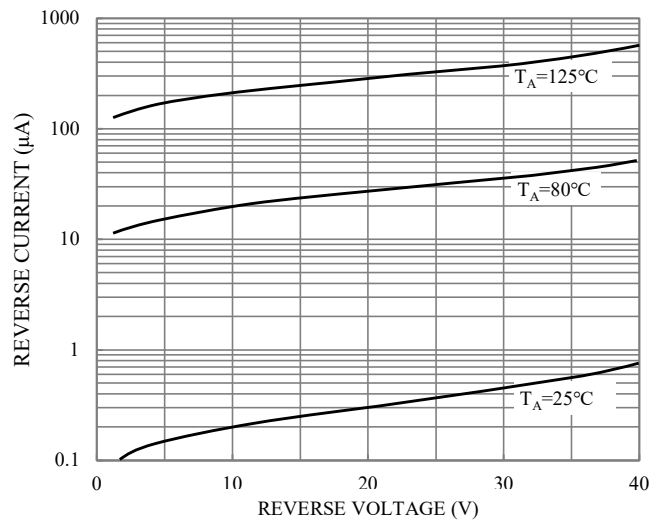


Fig.2-TYPICAL REVERSE CHARACTERISTICS

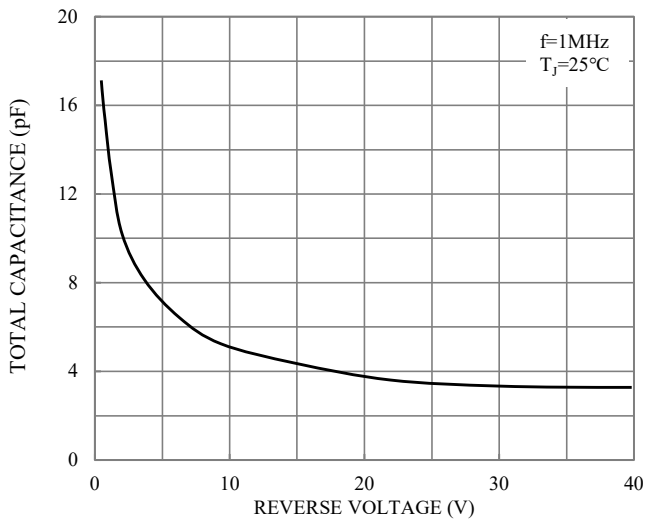


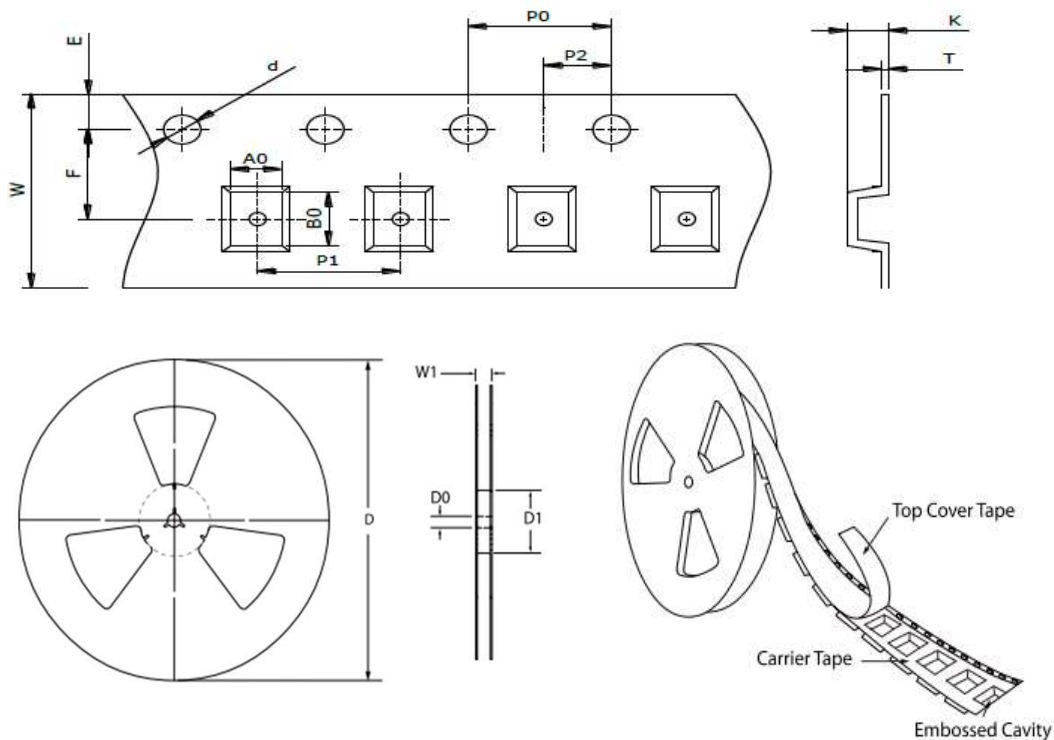
Fig.3-CAPACITANCE



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TAPE & REEL SPECIFICATION



Item	Symbol	SOD-523
Carrier width	A ₀	1.05 ± 0.15
Carrier length	B ₀	1.90 ± 0.15
Carrier depth	K	2.10 ± 0.10
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. 50.00
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	4.00 ± 0.10
Embossment center	P ₂	2.00 ± 0.10
Overall tape thickness	T	MAX. 0.60
Tape width	W	MAX. 8.30
Reel width	W ₁	MAX. 14.90

ORDER INFORMATION

Package	Reel Size	Quantity
SOD-523	7"	4,000

MARKING CODE

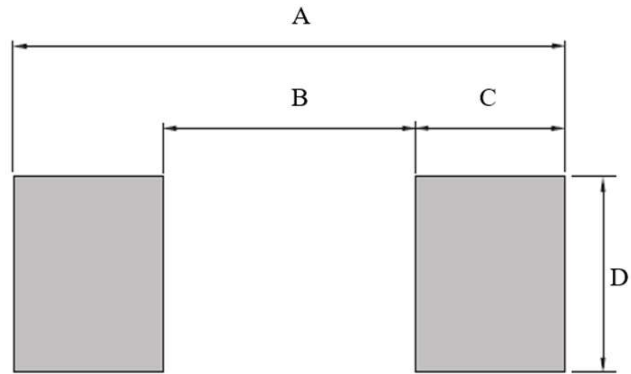
Part Number	Marking Code
RB0240LRWTH	J



RB0240LRWTH

SCHOTTKY DIODES

SUGGESTED SOLDER PAD LAYOUT



Unit : mm

PACKAGE	A	B	C	D
DFN1608	1.70	0.70	0.50	0.80