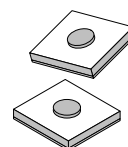


Step Recovery Diodes



CVB1151 to CVB1153, CVB1031 to CVB1033

Features



- Silicon Step Recovery Diodes for High Order Frequency Band Multiplication
- Fast transition times for output frequencies to 18 GHz
- Available as chips or packaged diodes

Maximum Ratings

Reverse Voltage, V_R :	V_{BR} rating
Operating Temperature:	-55 to 150°C
Storage Temperature:	-65 to 200°C

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

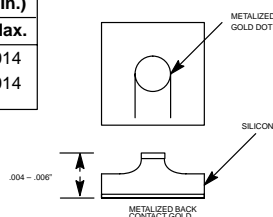
Step Recovery Diode Chips

Part Number	V_{BR} @ 10 μA (V)	I_R (80% of Rated V_{BR}) (nA)	C_J @ -6V (pF)		T_L^1 (ns)	T_T^1 (ps)	F_C @ -6V (GHz)	Typical Input Frequency (GHz)	Typical Output Frequency (GHz)	Outline Drawing Number
	Max.	Max.	Min.	Max.	Min.	Max.	Min.			
CVB1151-000	15	100	0.25	0.5	10	70	300	0.5-3.0	9-18	150-806
CVB1152-000	15	100	0.5	1.0	10	70	300	0.5-3.0	9-18	150-801
CVB1153-000	15	100	1.0	1.5	10	70	300	0.5-3.0	9-18	150-801
CVB1031-000	30	100	0.25	0.5	10	100	300	0.5-3.0	5-15	150-801
CVB1032-000	30	100	0.5	1.0	10	100	300	0.5-3.0	5-15	150-801
CVB1033-000	30	100	1.0	1.5	10	100	300	0.5-3.0	5-15	150-801

1. Test conditions for carrier lifetime (T_L) are $I_F = 10$ mA and $I_R = 6$ mA. Test conditions for transition time (T_T) are $V_R = 10$ V and $I_F = 10$ mA.

Outline Dimensions

Chip Style	Bonding Pad Nominal (In.)	Chip Size (In.)	
		Min.	Max.
150-801	.002 (min)	.010	.014
150-806	.0011 (min)	.010	.014

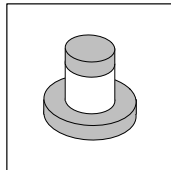


Ordering Information

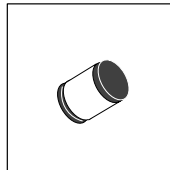
The following packages are also available. To order a part in a different package just replace the dash number with a package style listed below. For example, CVB1151-000 becomes CVB1151-210.

Available Package Outlines: 202, 203, 204, 210, 219, 230, 240

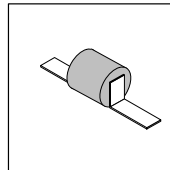
Refer to the Outline Drawings section in this catalog for the total selection of outline (package) dimensions.



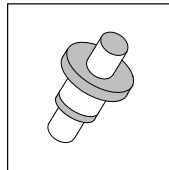
202



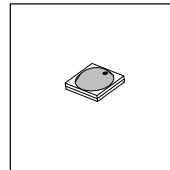
203



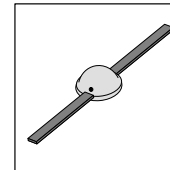
204



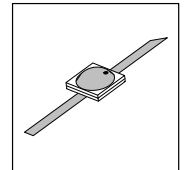
210



219



230



240