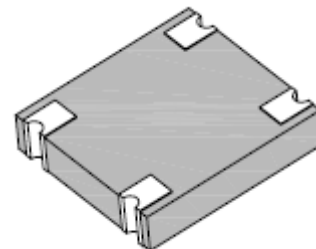


## 2.0A Surface Mount Bridge Rectifier

### Features

- Internal construction with SGP (Sintered Glass Passivated) chip inside
- Lead less chip form, no lead damage
- Lead-free solder joint, no wire bond & lead frame
- Low power loss, High efficiency
- High current capability
- High surge capacity
- Plastic package has UL Flammability Classification 94V-0
- RoHS Compliant and Halogen Free



C2321

HALOGEN  
FREE



### Mechanical Data

<b>Case:</b>	Packed with FRP substrate and epoxy underfilled
<b>Terminals:</b>	Pure Tin plated (Lead-Free) Solderable per MIL-STD-750, Method 2026
<b>Polarity:</b>	Laser cathode band marking
<b>Mounting Position:</b>	Any
<b>Weight:</b>	0.11 gram

### Maximum Ratings And Electrical Characteristics ( $T_{amb}=25^{\circ}C$ )

Symbol	Description	CB2321 T22L	CB2321 T24L	CB2321 T26L	CB2321 T28L	CB2321 T210L	Unit	Conditions
	Marking Code	CB22L	CB24L	CB26L	CB28L	CB210L		
<b>VRRM</b>	Max. Repetitive Peak Reverse Voltage	200	400	600	800	1000	V	
<b>VRMS</b>	Max. RMS Voltage	140	280	420	560	700	V	
<b>VDC</b>	Max. DC Blocking Voltage	200	400	600	800	1000	V	
<b>IF(AV)</b>	Max. Average Forward Rectified Current	2.0					A	See Fig. 1 & 2
<b>IFSM</b>	Peak Forward Surge Current	60					A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)

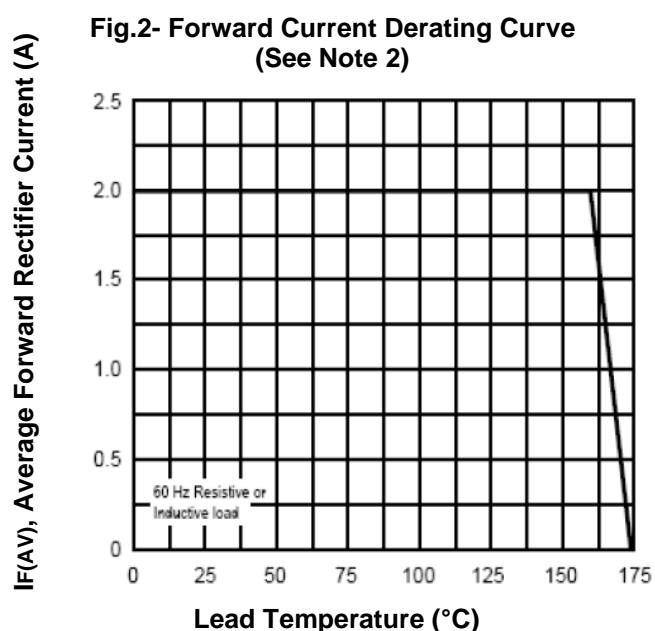
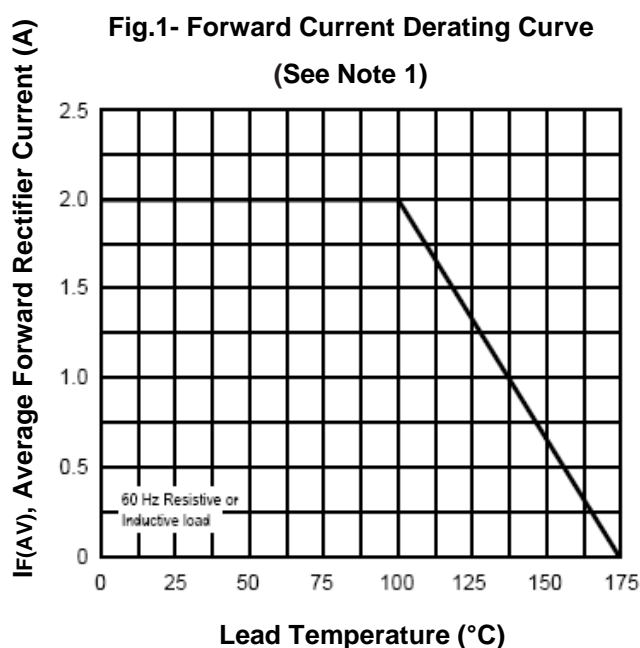
## 2.0A Surface Mount Bridge Rectifier

### CB2321T22L – CB2321T210L

Symbol	Description	Min.	Typ.	Max.	Unit	Conditions
<b>V<sub>F</sub></b>	Max. Instantaneous Forward Voltage per leg	-	0.92	0.95	V	I <sub>F</sub> =2.0A
<b>I<sub>R</sub></b>	Max. DC Reverse Current at Rated DC Blocking Voltage per leg	-	0.08	5	μA	V <sub>R</sub> =Max. V <sub>RRM</sub> T <sub>A</sub> =25°C
<b>I<sup>2</sup>t</b>	Typical I <sup>2</sup> t Rating for Fusing (t<8.3ms)	-	14.9	-	A <sup>2</sup> s	T <sub>A</sub> =25°C
<b>C<sub>J</sub></b>	Typical Junction Capacitance per leg	-	35	-	pF	V <sub>R</sub> = 4V, f=1MHz
<b>R<sub>thJA</sub></b>	Typical Thermal Resistance, Junction to Ambient	-	80	-	° C/W	Note 1
			43			Note 2
<b>R<sub>thJL</sub></b>	Typical Thermal Resistance, Junction to Lead	-	20	-		Note 1
			3			Note 2
<b>T<sub>J</sub>,T<sub>STG</sub></b>	Operating Junction and Storage Temperature Range	-55 to +175			° C	

**Note:** 1. Thermal resistance mounted on P.C.B. without heat sink, with 1.5 x 1.0mm copper pads only.  
2. Thermal resistance mounted on P.C.B. with 12.5 x 12.5mm heat sink for each leg.

### Typical Characteristics Curves



# 2.0A Surface Mount Bridge Rectifier

## CB2321T22L – CB2321T210L

Fig.3-Max. Non-repetitive Peak Forward Surge Current

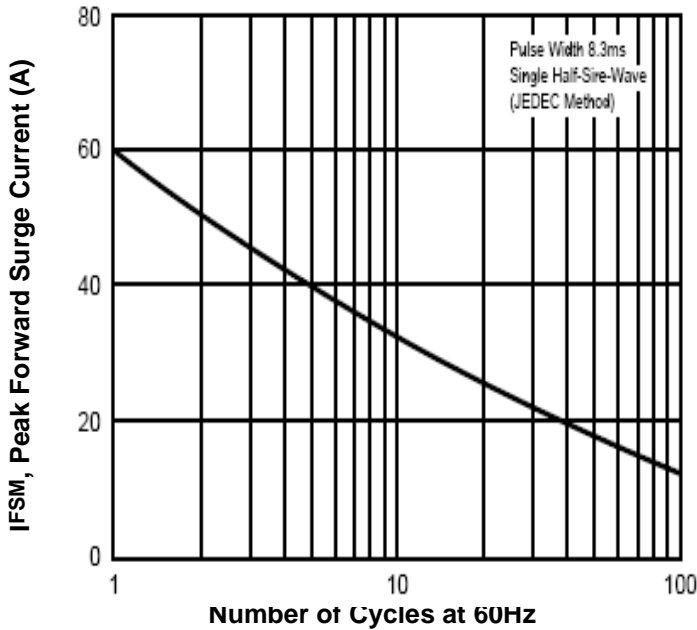


Fig.4-Typical Instantaneous Forward Characteristics per leg

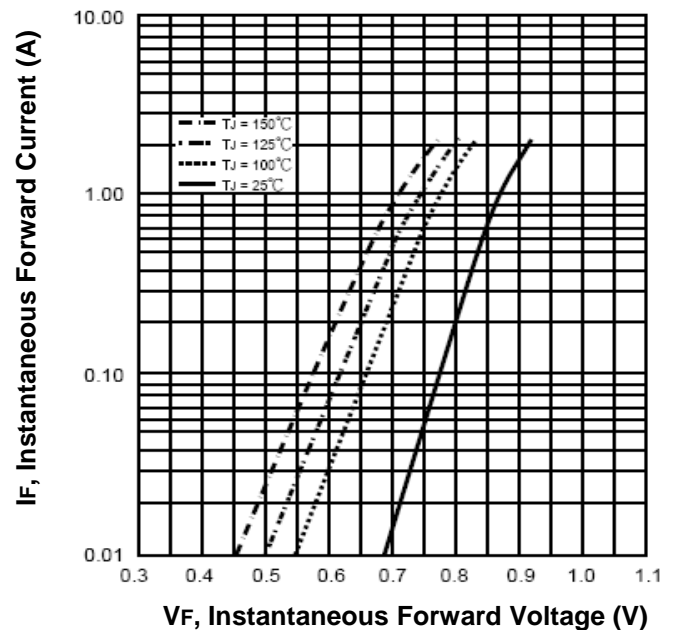


Fig.5-Typical Reverse Characteristics per leg

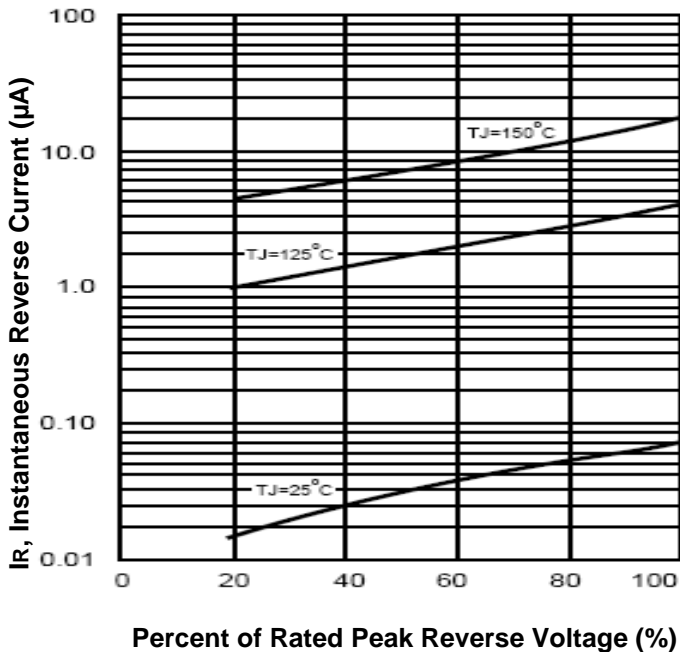
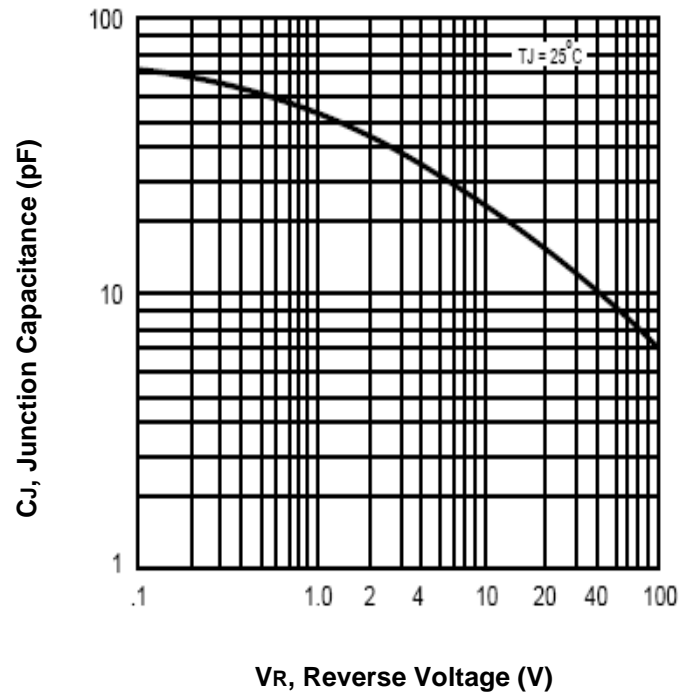


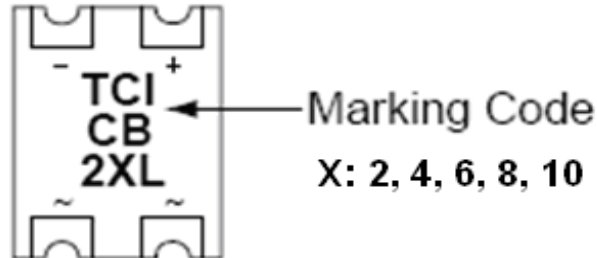
Fig.6-Typical Junction Capacitance per leg



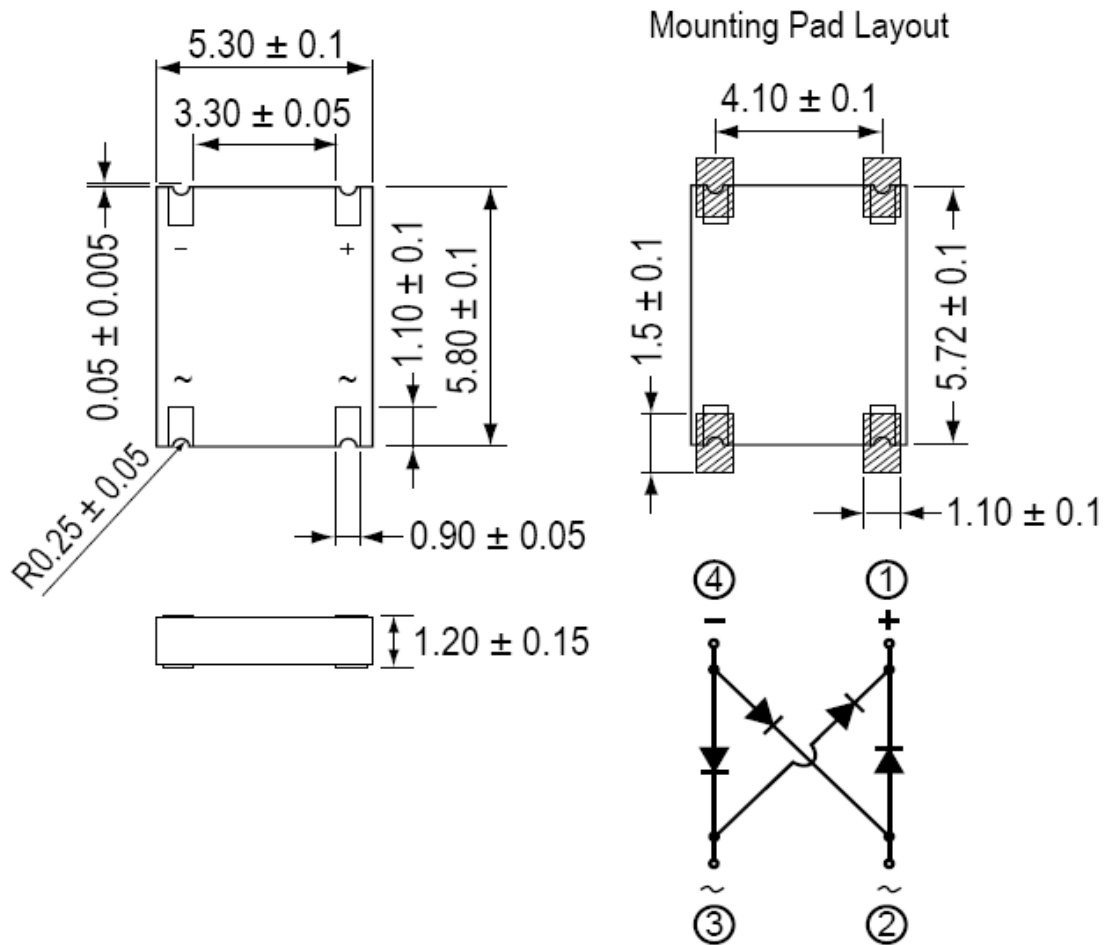
# 2.0A Surface Mount Bridge Rectifier

## CB2321T22L – CB2321T210L

### Marking Information:



### Dimensions in mm

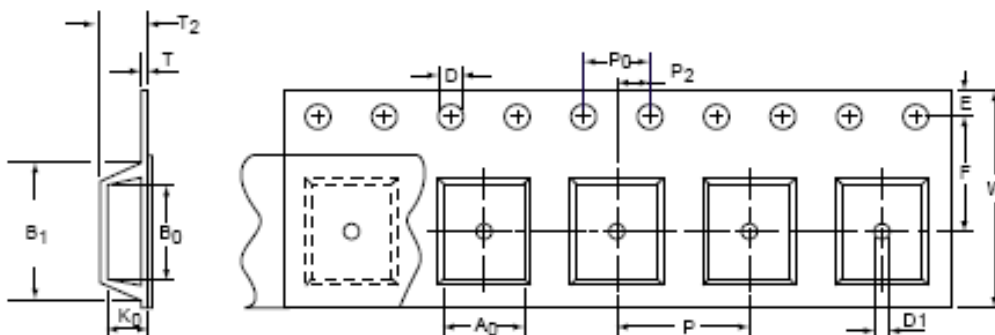


C2321

## 2.0A Surface Mount Bridge Rectifier

### CB2321T22L – CB2321T210L

#### Packing Information in mm



Product Type	D	E	P <sub>0</sub>	A <sub>0</sub>	B <sub>0</sub>	K <sub>0</sub>	T
	1.5±0.1	1.75±0.1	4.0±0.1	See Note 1			0.40max.
2321	B <sub>1</sub>	D <sub>1</sub>	F	P	W	T <sub>2</sub>	P <sub>2</sub>
	8.2max.	1.5min.	5.50±0.05	8.0±0.1	12.0±0.3	1.65±0.1	2.0±0.1

**Note:** 1. A<sub>0</sub>, B<sub>0</sub>, and K<sub>0</sub> are determined by component size. The clearance between the components and the cavity must be within 0.05 mm (0.002") Min. to 0.50 mm (0.02") Max. for 12 mm tape.

#### Packing Quantity Information:

Quantity	PCS per Reel	PCS per Carton
-TR30 Tape & Reel	5000	50000

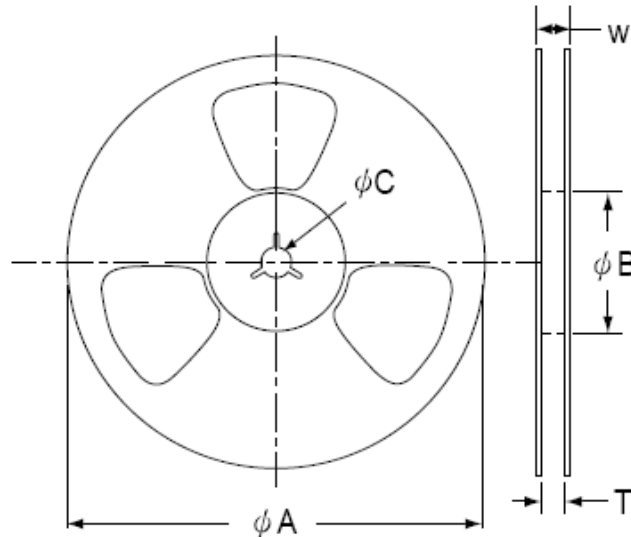
#### Carton Size Information:

-TR30 Tape & Reel
360X360X240 (in mm)

# 2.0A Surface Mount Bridge Rectifier

## CB2321T22L – CB2321T210L

### Reel Dimensions in mm



$\Phi A$	$\Phi B$	$\Phi C$	W	T
330±2.0	50min.	13.0±0.5	18.7max.	14.4max.

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