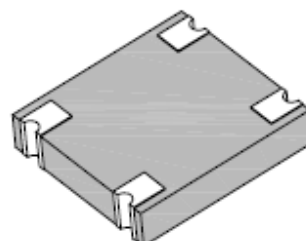


1.0A Surface Mount Bridge Rectifier

Features

- Internal construction with GPRC (Glass Passivated Rectifier Chip) inside
- For surface mounted applications
- Low power loss, High efficiency
- High current capability
- High surge capacity
- Plastic package has UL Flammability Classification 94V-0
- RoHS Compliant



C2321



Mechanical Data

Case:	Packed with FRP substrate and epoxy underfilled
Terminals:	Solder plated, solderable per MIL-STD-750, Method 2026
Polarity:	Laser marking
Mounting Position:	Any
Weight:	0.07 gram

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

Symbol	Description	CB2321 T12	CB2321 T14	CB2321 T16	CB2321 T18	CB2321 T110	Unit	Conditions
VRRM	Max. Repetitive Peak Reverse Voltage	200	400	600	800	1000	V	
VRMS	Max. RMS Voltage	140	280	420	560	700	V	
VDC	Max. DC Blocking Voltage	200	400	600	800	1000	V	
IF(AV)	Max. Average Forward Rectified Current	1.0					A	TA = 55°C
IFSM	Peak Forward Surge Current	30					A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
VF	Max. Instantaneous Forward Voltage per element	0.9					V	IF = 0.4A
		1.0						IF = 1.0A

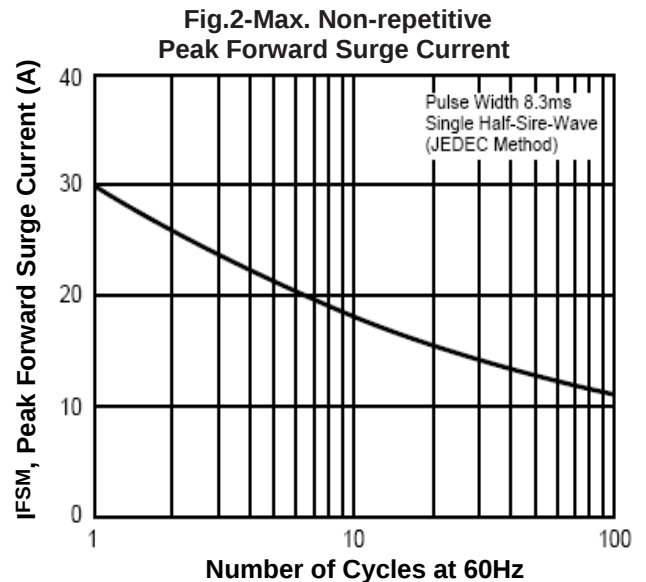
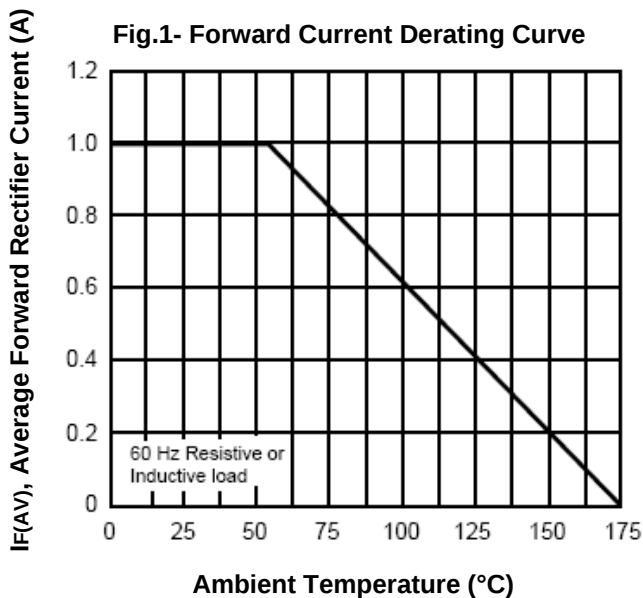
1.0A Surface Mount Bridge Rectifier

CB2321T12 – CB2321T110

Symbol	Description	CB2321 T12	CB2321 T14	CB2321 T16	CB2321 T18	CB2321 T110	Unit	Conditions
IR	Max. DC Reverse Current at Rated DC Blocking Voltage per element	5					μA	TC = 25°C
		200						TC = 150°C
I²t	I²t Rating for Fusing (t<8.3ms)	3.74					A²s	
CJ	Typical Junction Capacitance per element	25					pF	F=1MHz VR= 4V
RthJA	Typical Thermal Resistance, Junction to Ambient	110					° C/W	Note 1
TJ,TSTG	Operating Junction and Storage Temperature Range	-55 to +175					° C	

Note: 1. Thermal resistance, junction to ambient, measured on PC board with 5.0mm² (0.03mm thick) land areas

Typical Characteristics Curves



1.0A Surface Mount Bridge Rectifier

CB2321T12 – CB2321T110

Fig.3-Typical Instantaneous Forward Characteristics per element

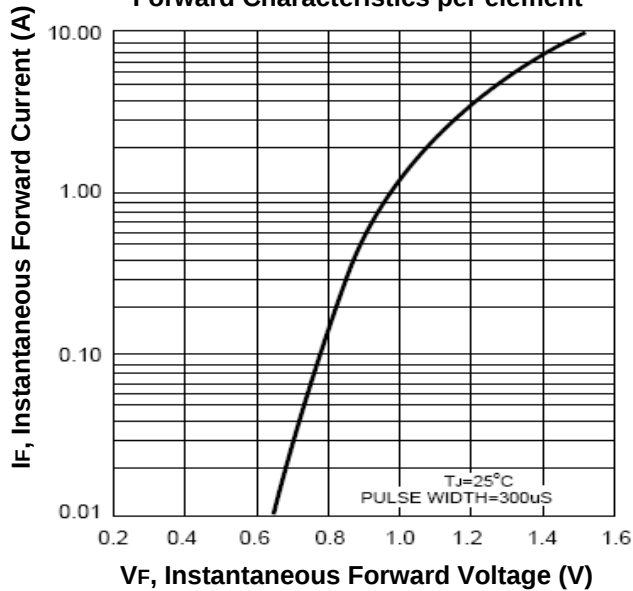


Fig.4-Typical Reverse Characteristics per element

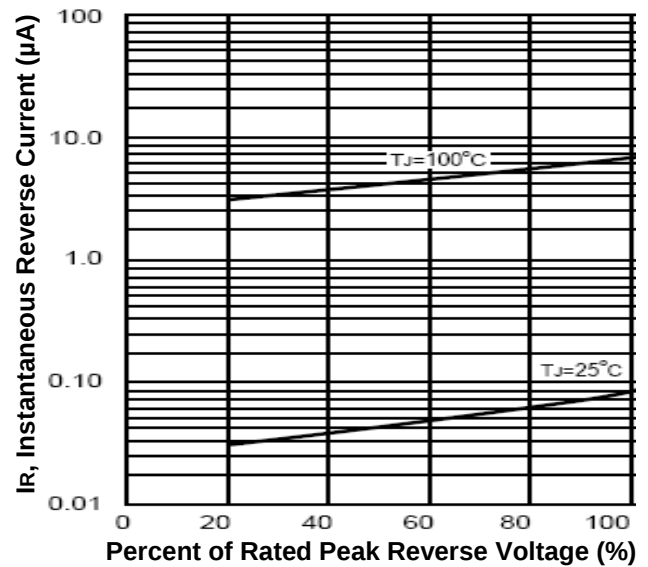
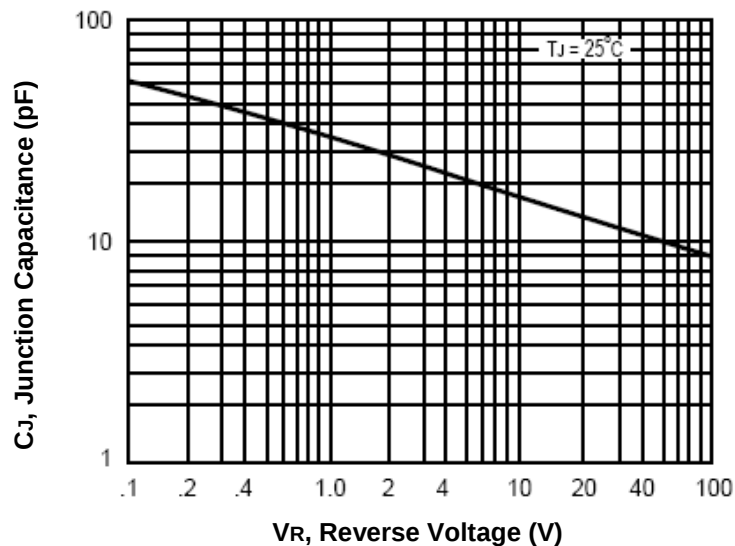


Fig.5-Typical Junction Capacitance per element

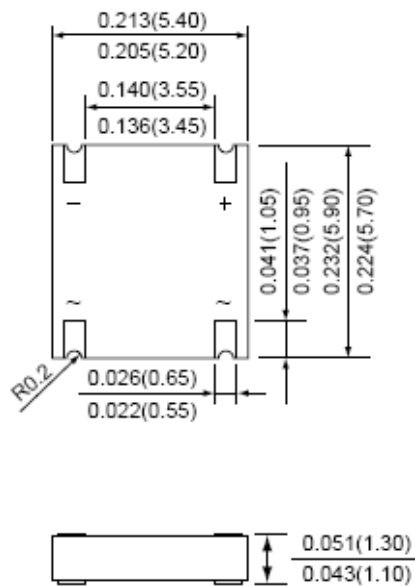


1.0A Surface Mount Bridge Rectifier

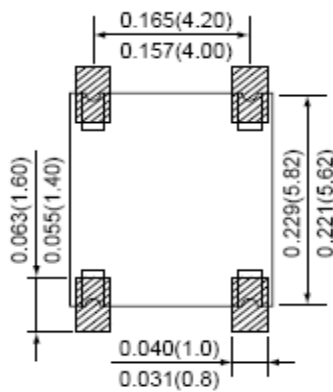
CB2321T12 – CB2321T110

Dimensions in inch (mm)

C2321



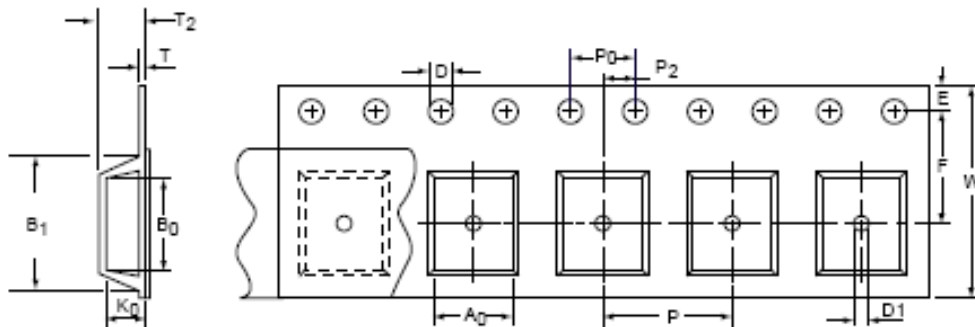
Mounting Pad Layout in inch (mm)



1.0A Surface Mount Bridge Rectifier

CB2321T12 – CB2321T110

Packing Information in mm



Product Type	D	E	P ₀	A ₀	B ₀	K ₀	T
	1.5±0.1	1.75±0.1	4.0±0.1	See Note 1			0.40max.
2321	B ₁	D ₁	F	P	W	T ₂	P ₂
	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. A₀, B₀, and K₀ 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

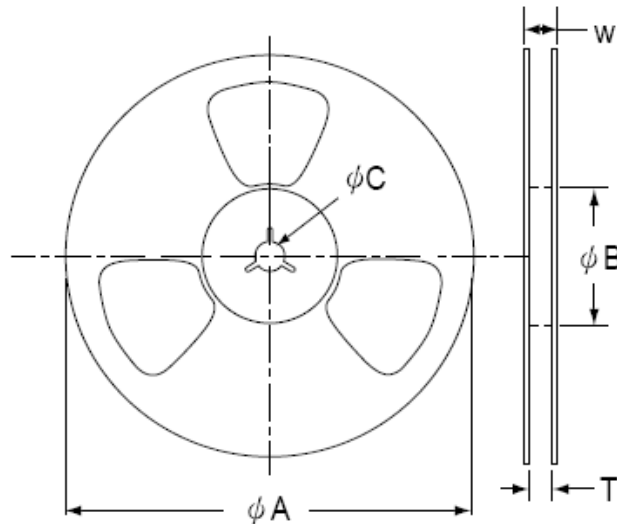
Carton Size Information:

-TR30 Tape & Reel
360X360X240 (in mm)

1.0A Surface Mount Bridge Rectifier

CB2321T12 – CB2321T110

Reel Dimensions in mm



ΦA	ΦB	ΦC	W	T
330±2.0	50min.	13.0±0.5	18.7max.	14.4max.

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Rev. A/AH 2007-12-20