

Features

- RoHS compliant*
- Low profile
- Low power loss, high efficiency
- UL 94V-0 classification

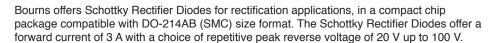
Applications

- Switching Mode Power Supplies
- Portable equipment batteries
- High frequency rectification
- DC/DC Converters
- Telecommunications

CD214C-B3xR Series Schottky Barrier Rectifier Chip Diode

General Information

Portable communications, computing and video equipment manufacturers are challenging the semiconductor industry to develop increasingly smaller electronic components.





Absolute Maximum Ratings (@ T_A = 25 °C Unless Otherwise Noted)

Parameter	Symbol	CD214C-				Limit
		B320R	B340R	B360R	B3100R	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	40	60	100	V
Maximum Average Forward Current	I _{F(AV)}	3			А	
Maximum Peak Forward Surge Current (8.3 ms Single Half Sine-Wave)	I _{FSM}	100			А	
Operating Junction Temperature Range	T _{OPR}	-55 to +125 -55 to +150		o +150	°C	
Storage Temperature Range	T _{STG}	-55 to +150			°C	

Electrical Characteristics (@ T_A = 25 °C Unless Otherwise Noted)

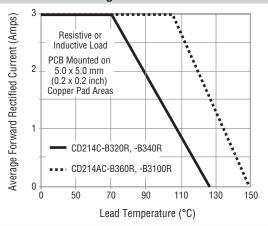
Parameter		Symbol	col Condition or Model		Min.	Тур.	Max.	Unit
				CD214C-B320R		0.38		
Maximum Instantaneous Forward Voltage (NOTE 1)				CD214C-B340R		0.36		
	V _F	I _F = _{1 A}	CD214C-B360R		0.48		V	
			CD214C-B3100R		0.58			
			CD214C-B320R		0.47	0.5		
			I _F = 3 A	CD214C-B340R		0.47	0.5	
				CD214C-B360R		0.65	0.7	
				CD214C-B3100R		0.78	0.85	
DC Reverse Current		I _R	V _R = V _{RRM}			0.025	0.5	mA
Typical Junction Capacitance		СЈ	V _R = 4 V, f = 1.0 MHz			180		pF
Typical Thermal Resistance (NOTE 2)	Junction to Ambient	$R_{\theta JA}$				55		°C/W
	Junction to Lead	$R_{ heta JL}$				17		1 0/00

NOTES:

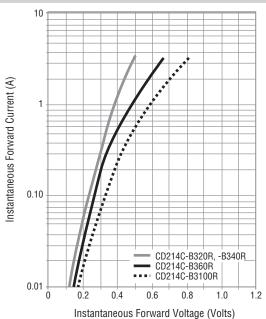
- (1) Pulse width 300 microsecond, 1 % duty cycle.
- (2) Mounted on PCB with 5.0 x 5.0 mm (0.2 x 0.2 inch) copper pad areas.

Performance Graphs

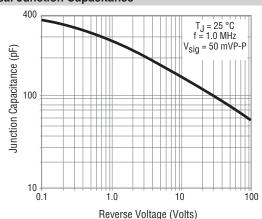
Forward Current Derating Curve



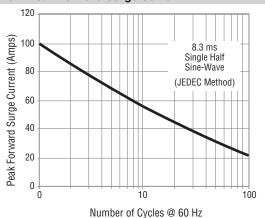
Typical Instantaneous Forward Characteristics



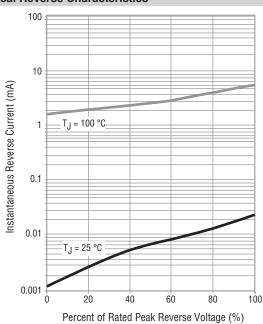
Typical Junction Capacitance



Maximum Peak Forward Surge Current



Typical Reverse Characteristics



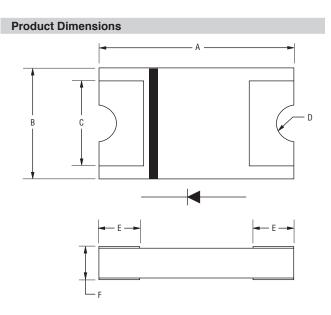
Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.

CD214C-B3xR Series Schottky Barrier Rectifier Chip Diode

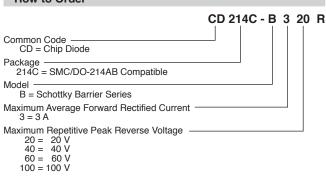
BOURNS



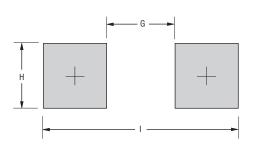
Dimension	CD214C-B3 Series
А	$\frac{8.0 \pm 0.10}{(0.315 \pm 0.004)}$
В	$\frac{5.0 \pm 0.10}{(0.197 \pm 0.004)}$
С	3.90 (0.154) TYP.
D	$\frac{0.80 \pm 0.02}{(0.031 \pm 0.001)}$
E	$\frac{1.95 \pm 0.10}{(0.077 \pm 0.004)}$
F	$\frac{1.10 \pm 0.15}{(0.043 \pm 0.006)}$

DIMENSIONS: $\frac{MM}{(INCHES)}$

How to Order



Recommended Pad Layout

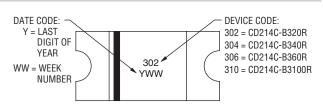


Dimension	CD214C-B3 Series		
G	$\frac{4.10}{(0.161)}$ MAX.		
Н	3.90 MIN.		
I	11.90 (0.469) REF.		

DIMENSIONS: $\frac{MM}{(INCHES)}$

Environmental Specifications

Typical Part Marking

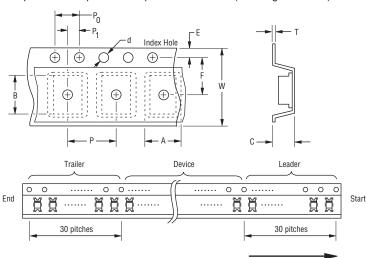


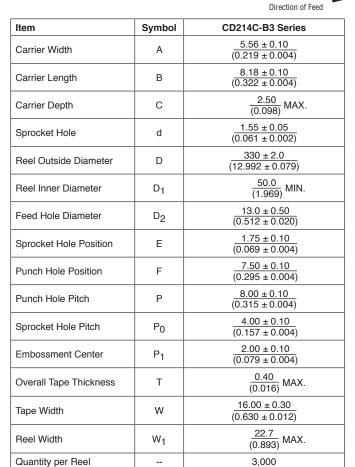
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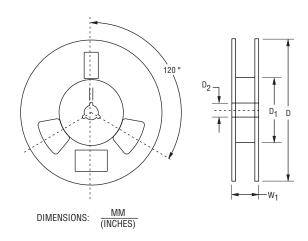
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Packaging Information

The product is dispensed in tape and reel format (see diagram below).







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*RoHS Directive 2015/863, Mar 31, 2015 and Annex. Specifications are subject to change without notice. The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

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SK33B-TP SK35A-TP SK38B-TP NRVBM120LT1G NTE505 NTSB30U100CT-1G SS15E-TP VS-6CWQ10FNHM3 ACDBA1100LR-HF
ACDBA1200-HF ACDBA140-HF ACDBA2100-HF ACDBA3100-HF CDBQC0530L-HF CDBQC0240LR-HF BAT6202VH6327XTSA1
ACDBA340-HF ACDBA260LR-HF ACDBA1100-HF SK310B-TP MA4E2502L-1246 MA4E2502H-1246 NRVBM120ET1G
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