

Features

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

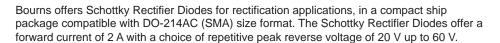
Applications

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

CD214A-B2xR 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	CD214A-					
	Syllibol	B220R	B220LR	B240R	B240LR	B260R	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	20	40	40	60	V
Maximum Average Forward Current	I _{F(AV)}	2			А		
Maximum Peak Forward Surge Current (8.3 ms Single Half Sine-Wave)	I _{FSM}	50			А		
Operating Junction Temperature Range	T _{OPR}	-55 to +125			°C		
Storage Temperature Range	T _{STG}	-55 to +150			°C		

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

Parameter		Symbol	Co	ndition or Model	Min.	Тур.	Max.	Unit
Maximum Instantaneous Forward Voltage (NOTE 1)		V _F		CD214A-B220R CD214A-B240R		0.41		V
			IF = 1 A	CD214A-B260R		0.5		
				CD214A-B220LR CD214A-B240LR		0.34		
			I _F = 2 A	CD214A-B220R CD214A-B240R		0.49	0.5	
	CD214A-B260R				0.6	0.7		
	CD214A-B220LR CD214A-B240LR				0.39	0.4		
DC Reverse Current		I _R	V _R =	CD214A-B220R CD214A-B240R CD214A-B260R		0.025	0.2	mA
	VRRM		CD214A-B220LR CD214A-B240LR		0.28	1		
Typical Junction Capacitance		СЈ	V _R :	= 4 V, f = 1.0 MHz		115		pF
Typical Thermal Resistance (NOTE 2) Ambient	Junction to	$R_{ heta JA}$	CD214A-B220R CD214A-B240R CD214A-B260R			75		°C/W
	Ambient		CD214A-B220LR CD214A-B240LR			70		
	Junction to Lead	$R_{\theta JL}$				17		

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.



*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

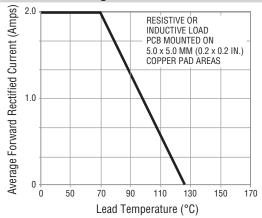
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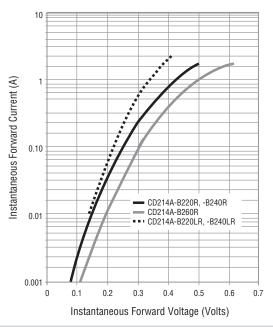
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Performance Graphs

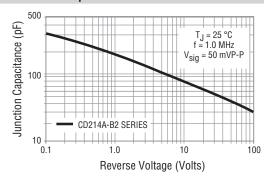
Forward Current Derating Curve



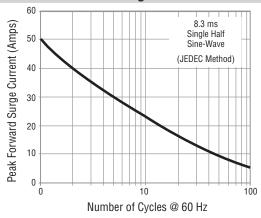
Typical Instantaneous Forward Characteristics



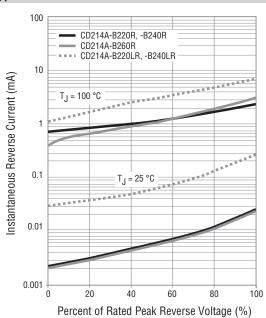
Typical Junction Capacitance



Maximum Peak Forward Surge Current



Typical Reverse Characteristics

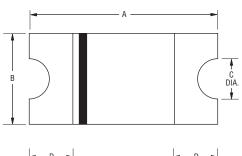


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CD214A-B2xR Series Schottky Barrier Rectifier Chip Diode

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Product Dimensions

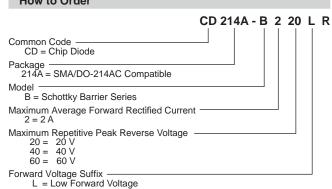




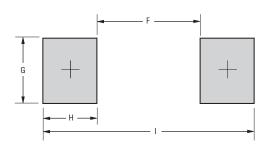
Dimension	CD214A-B2 Series
А	$\frac{4.5 \pm 0.10}{(0.177 \pm 0.004)}$
В	$\frac{2.20 \pm 0.10}{(0.087 \pm 0.004)}$
C (Dia.)	<u>0.50</u> (0.020)
D	$\frac{0.95 \pm 0.20}{(0.037 \pm 0.008)}$
E	0.96 +0.20/-0.10 (0.038 +0.008/-0.004)

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

How to Order



Recommended Pad Layout



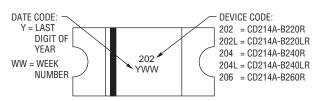
Dimension	CD214A-B2 Series
F	$\frac{2.60}{(0.102)}$ MAX.
G	<u>1.47</u> MIN.
Н	1.27 (0.050) MIN.
I	<u>5.14</u> (0.202) REF.

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

Environmental Specifications

Moisture Sensitivity Leve	l1
)3B

Typical Part Marking



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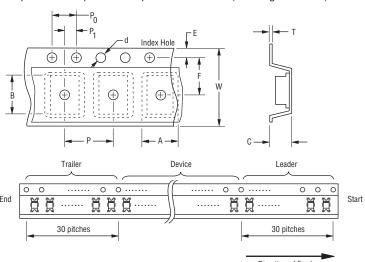
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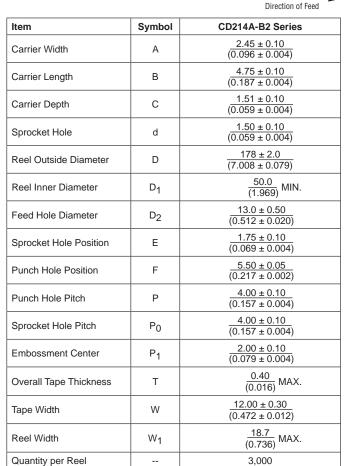
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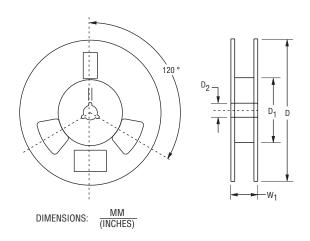
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Packaging Information

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







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