

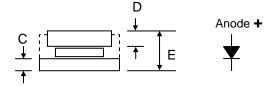
C50A – C50K

50A AUTOMOTIVE CELL DIODE



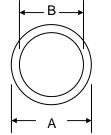
Features

- Diffused Junction
- Low Leakage
- Low Cost
- High Surge Current Capability
- Die Size 220 mil HEX



Mechanical Data

- Case: Cell Diode Passivated with Silicon Rubber
- Terminal: Copper Disc with Ag Plated
- Polarity: Indicated by Large Disc On Cathode Side, Add "R" Suffix to Indicate Reverse Polarity, i.e. C50AR
- Mounting Position: Any
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 2



C50					
Dim	Min	Max			
Α	_	7.55			
В	-	6.55			
С	0.75	—			
D	1.0	—			
Е	—	2.2			
All Dimensions in mm					

Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	C50A	C50B	C50D	C50G	C50J	С50К	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	400	600	800	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	V
Average Rectified Output Current @T _c = 150°C	lo	50				А		
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	500			A			
Forward Voltage @I _F = 100A	Vfm	1.08			V			
Peak Reverse Current At Rated DC Blocking Voltage @T _A = 25°C	Ігм	3.0			μA			
Typical Thermal Resistance Junction to Ambient	R ja	1.0		°C/W				
Operating and Storage Temperature Range	TJ, TSTG			-40 to	+150			°C



Product No.	Package Type	Shipping Quantity
C50A	7.6mm Cell Diode	2000 Units/Bottle
C50B	7.6mm Cell Diode	2000 Units/Bottle
C50D	7.6mm Cell Diode	2000 Units/Bottle
C50G	7.6mm Cell Diode	2000 Units/Bottle
C50J	7.6mm Cell Diode	2000 Units/Bottle
С50К	7.6mm Cell Diode	2000 Units/Bottle

ORDERING INFORMATION

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

 To order Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, C50A-LF.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

Won-Top Electronics Co., Ltd.

No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung 806, Taiwan Phone: 886-7-822-5408 or 886-7-822-5410 Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

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