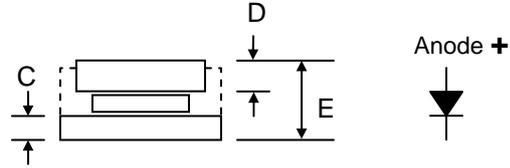


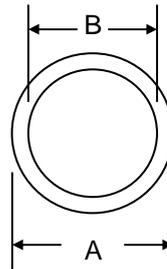
## Features

- Diffused Junction
- Low Leakage
- Low Cost
- High Surge Current Capability
- Die Size 240 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. C70AR
- Mounting Position: Any
- **Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 2**



C70		
Dim	Min	Max
A	—	8.55
B	—	7.55
C	0.75	—
D	1.0	—
E	—	2.2
All Dimensions in mm		

## Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

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

Characteristic	Symbol	C70A	C70B	C70D	C70G	C70J	C70K	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$V_{RRM}$ $V_{RWM}$ $V_R$	50	100	200	400	600	800	V
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	V
Average Rectified Output Current @ $T_C = 150^\circ\text{C}$	$I_O$	70						A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	600						A
Forward Voltage @ $I_F = 100\text{A}$	$V_{FM}$	1.05						V
Peak Reverse Current At Rated DC Blocking Voltage @ $T_A = 25^\circ\text{C}$	$I_{RM}$	3.0						$\mu\text{A}$
Typical Thermal Resistance Junction to Ambient	$R_{JA}$	1.0						$^\circ\text{C}/\text{W}$
Operating and Storage Temperature Range	$T_J, T_{STG}$	-40 to +150						$^\circ\text{C}$

## ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
C70A	8.6mm Cell Diode	2000 Units/Bottle
C70B	8.6mm Cell Diode	2000 Units/Bottle
C70D	8.6mm Cell Diode	2000 Units/Bottle
C70G	8.6mm Cell Diode	2000 Units/Bottle
C70J	8.6mm Cell Diode	2000 Units/Bottle
C70K	8.6mm Cell Diode	2000 Units/Bottle

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
2. **To order Lead Free version (with Lead Free finish), add “-LF” suffix to part number above. For example, C70A-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>

*We power your everyday.*