WON-TOP ELECTRONICS

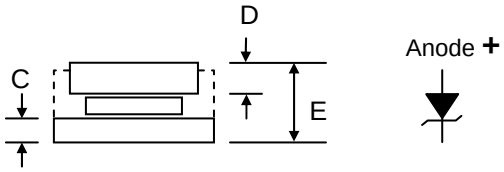
C7020, C7024, C7036

70A AVALANCHE AUTOMOTIVE CELL DIODE

RoHS Pb

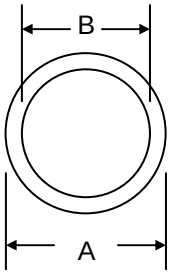
Features

- 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. C7020R
- Mounting Position: Any
- **Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 2**



C50		
Dim	**Min**	**Max**
A	—	7.55
B	—	6.55
C	0.75	—
D	1.0	—
E	—	2.2
All Dimensions in mm		

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

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

Characteristic	Symbol	C7020	C7024	C7036	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	16	20	32	V
Average Rectified Output Current @T_C = 150°C	I_O	70			A
Breakdown Voltage Min. @I_R = 100mA Breakdown Voltage Max. @I_R = 100mA	V_{BR}	20 26	24 32	36 42	V
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 = 100A	V_{FM}	1.03			V
Peak Reverse Current At Rated DC Blocking Voltage @T_A = 25°C	I_{RM}	200			nA
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	1.0			°C/W
Operating and Storage Temperature Range	T_J, T_{STG}	-40 to +150			°C

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ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
C7020	7.6mm Cell Diode	2000 Units/Bottle
C7024	7.6mm Cell Diode	2000 Units/Bottle
C7036	7.6mm 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, C7020-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.

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We power your everyday.

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