



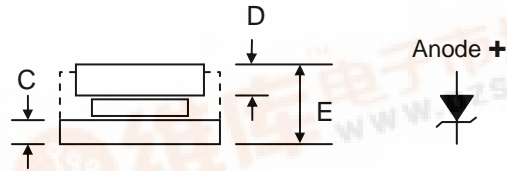
C3520 & C3524



35A AVALANCHE AUTOMOTIVE CELL DIODE

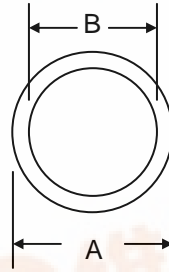
Features

- Diffused Junction
- Low Leakage
- Low Cost
- High Surge Current Capability
- Die Size 184 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. C3520R
- Mounting Position: Any
- **Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 2**



C35		
Dim	Min	Max
A	—	6.30
B	—	5.46
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	C3520	C3524	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	16	20	V
Average Rectified Output Current @T _C = 150°C	I _O	35		A
Breakdown Voltage Min. @I _R = 100mA Breakdown Voltage Max. @I _R = 100mA	V _{BR}	20 26	24 32	V
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	400		A
Forward Voltage @I _F = 80A	V _{FM}	1.08		V
Peak Reverse Current At Rated DC Blocking Voltage @T _A = 25°C	I _{RM}	200		nA
Typical Thermal Resistance Junction to Ambient	R _{θJA}	1.4		°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-40 to +150		°C



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
C3520	6.2mm Cell Diode	5000 Units/Bottle
C3524	6.2mm Cell Diode	5000 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, C3520-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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