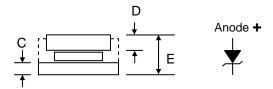


## 35A AVALANCHE AUTOMOTIVE CELL DIODE



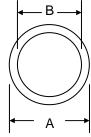
#### **Features**

- 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			
Α	_	6.40			
В	_	5.46			
С	0.75	_			
D	1.0	_			
E	_	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	C3520	C3524	C3536	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	16	20	32	V
Average Rectified Output Current @	T <sub>C</sub> = 150°C	lo		35		А
9	I <sub>R</sub> = 100mA I <sub>R</sub> = 100mA	VBR	20 26	24 32	36 42	V
Non-Repetitive Peak Forward Surge Currer 8.3ms Single Half Sine-Wave Superimpose Rated Load (JEDEC Method)		IFSM		400		A
Forward Voltage	@I <sub>F</sub> = 80A	VFM		1.08		V
Peak Reverse Current At Rated DC Blocking Voltage	20 T <sub>A</sub> = 25°C	IRM	200			nA
Typical Thermal Resistance Junction to Ambient		R JA	1.4		°C/W	
Operating and Storage Temperature Range		ТЈ, ТЅТС	-40 to +150		°C	



#### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity
C3520	6.4mm Cell Diode	5000 Units/Bottle
C3524	6.4mm Cell Diode	5000 Units/Bottle
C3536	6.4mm Cell Diode	5000 Units/Bottle

- 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, 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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