

DIOTEC ELECTRONICS CORP 18020 Hobart Blvd., Unit B Gardena, CA 90248 U.S.A

Tel.: (310) 767-1052 Fax: (310) 767-7958

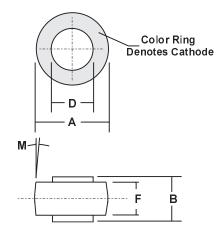
## 35 AMP BUTTON DIODES

### **Features**

# **Mechanical Specification**

- Void Free Vacuum Die Soldering For Maximum **Mechanical Strength and Heat Dissipation** (Solder Voids: Typical ≤ 2%, Max. ≤ 10% of Die Area)
- Biggest Effective Die Area for the 35 Amp Class of **Button Diodes**
- High Temperature Solder (Solidus 287°C, Liquidus 296°C) to Allow Higher Operating And Assembly Temperatures
- Copper Headers Are Silver Plated For Easy Soldering **And Superior Solder Joints**

## Die Size: 0.180" x 0.180" Square



#### **Mechanical Data**

- Case: Molded Epoxy (UL Flammability Rating 94V-O)
- Finish: All Metal Surfaces Are Silver Plated
- Soldering Temperature: 250 °C maximum

Mounting Position: Any

• Polarity: Color band denotes cathode

• Weight: 0.6 Ounces (1.8 Grams)



Dim	Millim	eters	Inches				
	Min	Max	Min	Max			
Α	9.78	10.29	0.385	0.405			
В	5.97	6.35	0.235	0.250			
D	5.46	5.71	0.215	0.225			
F	4.19	4.45	0.165	0.175			
М	5° N	MOM	5° NOM				

## **Maximum Ratings & Electrical Characteristics**

Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter (Test Conditions)		Ratings						Units	
Series Number		BAR 3500	BAR 3501	BAR 3502	BAR 3504	BAR 3506		BAR 3510	
Maximum DC Blocking Voltage									
Maximum RMS Voltage	VRWM	50	100	200	400	600	800	1000	Volts
Maximum Peak Recurrent Reverse Voltage	<b>V</b> DC								
Non-repetitive Peak Reverse Voltage (Half wave, single phase, 60 Hz peak)	VRSM	60	120	240	480	720	960	1200	
Average Forward Rectified Current @ Tc =150 °C	lo	35							
Peak Forward Surge Current (8.3mS single half sine wave superimposed on rated load)		500						Amps	
Maximum Forward Voltage Drop at 35 Amp DC	VFM	1.1 (Typical 1.05) 1.15					Volts		
Maximum Average DC Reverse Current @ TA = 25 °C At Rated DC Blocking Voltage @ TA = 100 °C	IRM	1 50						μ <b>Α</b>	
Maximum Thermal Resistance, Junction to Case (Note 1)		0.9						°C/W	
Junction Operating and Storage Temperature Range	ТЈ,Тѕтс	-65 to +175						°C	

Notes: 1) Single Side Cooled