

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

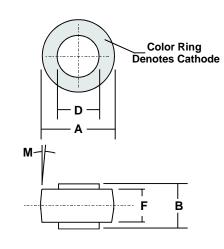
- PROPRIETARY SOFT GLASS® JUNCTION PASSIVATION FOR SUPERIOR RELIABILITY AND PERFORMANCE
- VOID FREE VACUUM DIE SOLDERING FOR MAXIMUM MECHANICAL STRENGTH AND HEAT DISSIPATION (Solder Voids: Typical < 2%, Max. < 10% of Die Area)
- Compact molded design
- High surge current, 600 A @ T_J = 175 °C
- Low cost
- Peak performance at elevated temperatures: 35 A
 © T₁ = 175 °C

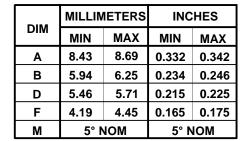
MECHANICAL DATA

- Case: Transfer molded plastic
- Finish: All external surfaces are corrosion resistant and the contact areas are readily solderable
- Soldering Temperature: 250 °C maximum
- Mounting Position: Any
- Polarity: Color band denotes cathode
- Weight: 0.6 Ounces (1.8 Grams)

MECHANICAL SPECIFICATION

Die Size: 0.165" x 0.165" Square





MAXIMUM RATINGS & FLECTRICAL CHARACTE	DIGTING

Ratings at 25 °C ambient temperature unless otherwise specified.

PARAMETER (TEST CONDITIONS)	SYMBOL	RATINGS							UNITS
Series Number		BAR 3500S	BAR 3501S	BAR 3502S	BAR 3504S	BAR 3506S	BAR 3508S	BAR 3510S	
Maximum DC Blocking Voltage	VRRM	50	100	200	400	600	800	1000	VOL TO
Maximum RMS Voltage	Vrwm								
Maximum Peak Recurrent Reverse Voltage	VDC								VOLTS
Non-repetitive Peak Reverse Voltage (Half wave, single phase, 60 Hz peak)	V RSM	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)	IFSM	500							AMPS
Repetitive Peak Reverse Surge Current (Half wave, single phase, 60 Hz applied to rated load)	IRSM	110							
Maximum Forward Voltage Drop at 35 Amp DC	VFM	1.1 (Typical 1.05) 1.15					15	VOLTS	
Maximum Average DC Reverse Current @ TA = 25 °C At Rated DC Blocking Voltage @ TA = 100 °C	Irm	1 50						μ Α	
Maximum Thermal Resistance, Junction to Case (Note 1)	R⊕JC	0.9							°C/W
Junction Operating and Storage Temperature Range	ТЈ ,Тѕтс	-65 to +175							°C

Notes: 1) Single Side Cooled