

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

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35 AMP SOFT RECOVERY FAST SWITCHING LEAD MOUNT BUTTON DIODES

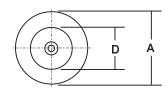
FEATURES

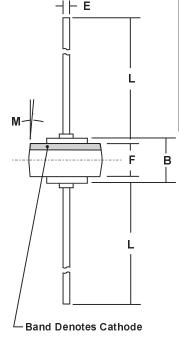
- IDEALLY SUITED FOR ELECTRIC VEHICLE MOTOR CONTROL APPLICATIONS
- HIGH FREQUENCY: 250 kHz FAST RECOVERY: Typical 100nS - 150nS
- UNMATCHED PERFORMANCE Minimal RFI/EMI, Reduced Power Losses, Extremely Cool Operation Increased Power Supply Efficiency
- VOID FREE Vacuum Die Soldering For Maximum Mechanical Strength And Heat Dissipation (Solder Voids: Typical < 2%, Max. < 10% of Die Area)
- Glass Passivated Die For Superior Reliability and Performance
- Wide Range of Applications: Motor Speed Controllers, Inverters, Converters, Choppers, Power Supplies, etc.

MECHANICAL DATA

- Case: Molded Epoxy (UL Flammability Rating 94V-O)
- Finish: All external surfaces are corrosion resistant and the contact areas are readily solderable
- Maximum Lead Soldering Temperature: 220 °C, 3/8" from case for 10 seconds at 5 lbs tension
- Mounting Position: Any
- Polarity: Color band or diode symbol on case
- Weight: 0.09 Ounces (2.6 Grams)

MECHANICAL SPECIFICATION





	MILLIN	IETERS	INCHES			
DIM	MIN	MAX	MIN	MAX		
Α	8.43	8.69	0.332	0.342		
В	5.94	6.25	0.234	0.246		
D	5.46	5.71	0.215	0.225		
Е	1.27	1.35	0.050	0.053		
F	4.19	4.45	0.165	0.175		
L	25.15	25.65	0.990	1.010		
М	5° N	MOM	5° N	IOM		

DIE SIZE: 0.180" x 0.180" SQUARE GPP DIE



MAXIMUM RATINGS & ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

PARAMETER (TEST CONDITIONS)		RATINGS				UNITS		
Series Number		SRL 3500	SRL 3501	SRL 3502	SRL 3504	SRL 3506		
Maximum DC Blocking Voltage		50	100	200	400	600		
Maximum RMS Voltage	VRMS	35	70	140	280	420	VOLTS	
Maximum Peak Recurrent Reverse Voltage	VRRM	50	100	200	400	600	1	
Average Forward Rectified Current	lo	35				AMPS		
Peak Forward Surge Current (8.3mS single half sine wave superimposed on rated load)	lFSM	500						
Maximum Forward Voltage at 35 Amps DC		1.35 (Typical 1.25)				VOLTS		
Maximum Average DC Reverse Current @ Tc = 25 °C At Rated DC Blocking Voltage @ Tc = 125 °C		1.0 50				μ Α		
Typical Thermal Resistance, Junction to Case (Note 1)		0.8			°C/W			
Junction Operating and Storage Temperature Range		-65 to +175			°C			

Notes: 1) Both Leads to Heatsink, Equal Length