180 Lafayette Road
North Hampton, NH 03862-2448
PH: 603-964-3165
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WWW.PDEELECTRONICS.COM

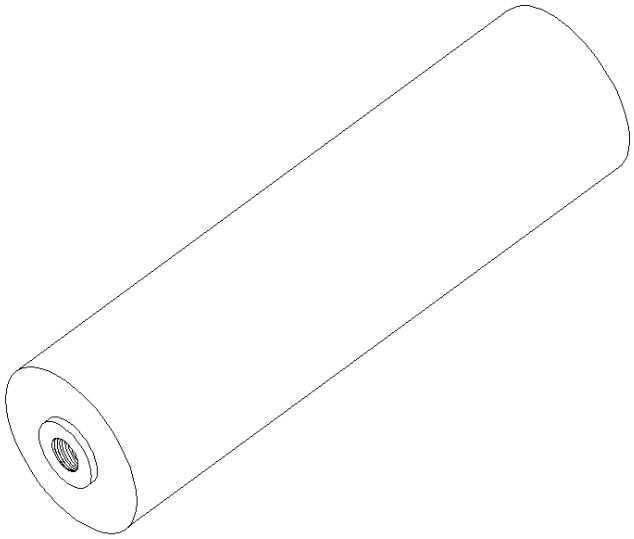
Rectifier Assembly

High Voltage, Fast Recovery

PD40K500M250S

CONSTRUCTION

- Stable Avalanche Rectifiers Utilized
- Voidless, Solid Construction
- Metallurgically Bonded Rectifiers
- Hermetically Sealed Discretes
- High Temperature Rating
- Epoxy Encapsulated



FEATURES

- High Voltage
- Fast Switching Time
- Corrosion Resistant
- Low Forward Voltage Drop
- Corona Free Construction
- Low Distributed Capacitance

ABSOLUTE MAXIMUM CAPABILITY RATING

Reverse Voltage V_{RM}	40,000 Volts
Forward Current I_O (T_A= +55°C)	500mA
Operating Temperature Range	-55°C to +150°C
Storage Temperature Range	-65°C to +175°C
Peak Forward Surge Current (t_P=8.3mS, Half Sine Wave)	50A*
Peak Forward Surge Current (t_P=5µS)	350A*

*non-repetitive

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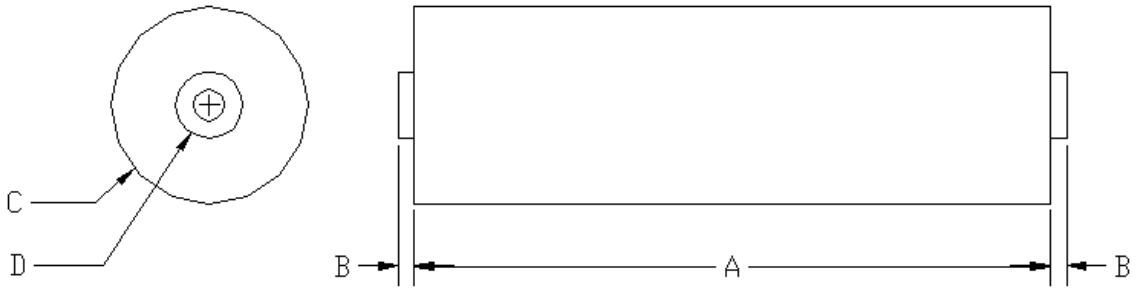
ELECTRICAL SPECIFICATIONS (TA=+25°C)

Device Type	Maximum Reverse Leakage Current		Maximum Forward Voltage		Maximum Reverse Recovery Time*	
	V_R= 40,000V		I_F= 500mA		I_F=0.5A, I_R=1A, I_{RR}=0.25A	
	Typical	Max	Typical	Max	Typical	Max
PD40K500M250S	0.5µA	1.0µA	50V	52V	200nS	250nS

*measured on discrete devices prior to assembly



	INCHES	TOL.	NOTES
A	5.500	+/- 0.030	
B	0.250	+/- 0.015	
C	1.500	+/- 0.010	DIA
D	0.500	+/- 0.010	DIA