



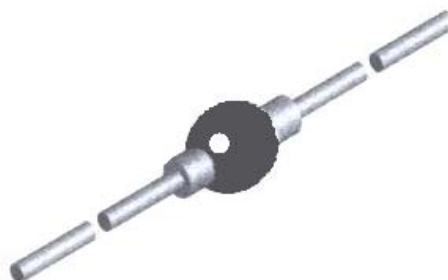
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North Hampton, NH 03862-2448
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PD5807, PD5809, PD5811

Ultra Fast Diode

FEATURES

- Low Leakage Current
- High Surge Current Capable
- High Temp Metallurgically Bonded Construction
- Hermetically Sealed
- Low Forward Voltage
- High Current Capable
- Very Fast Recovery Time
- Cavity-Free, Glass Passivated



MAXIMUM RATINGS

Average Forward Current ($T_L=75^\circ\text{C}$).....6A
Forward Surge Current (8.3ms half sine).....130A
Junction Temperature..... -65°C to $+175^\circ\text{C}$
Storage Temperature..... -65°C to $+175^\circ\text{C}$
Thermal Resistance..... 22°C/W junction to lead
Capacitance.....75pF at 10 volts

ELECTRICAL CHARACTERISTICS

Part Number	Reverse Current (Max) $I_R @ V_{RWM}$		Max Forward Voltage $V_F @ 4A$ (8.3 ms pulse)		Working Peak Reverse Voltage V_{RWM}	Average Rectified Current I_O		Reverse Recovery Time (t_{rr}) ***	Surge Current (Max) I_{FSM} **	Dot Color Voltage Rating
	25°C	100°C	25°C	100°C		$T_L=25^\circ\text{C}^*$	$T_L=100^\circ\text{C}^*$	$T_A=25^\circ\text{C}$	$T_A=25^\circ\text{C}$	
PD5807	1 μA	50 μA	.875V	0.8V	50V	7.5A	4.5A	35ns	130A	White
PD5809			.875V	0.8V	100V					
PD5811			.875V	0.8V	150V					

* 3/8 inch lead length.

** $I_O = 3A$ and V_{RWM} for 8.3ms surge

*** $I_F = 0.5A$, $I_{RM} = 1.0A$, $I_{R(REC)} = 0.25A$

Specifications subject to change without notice to ensure a better product

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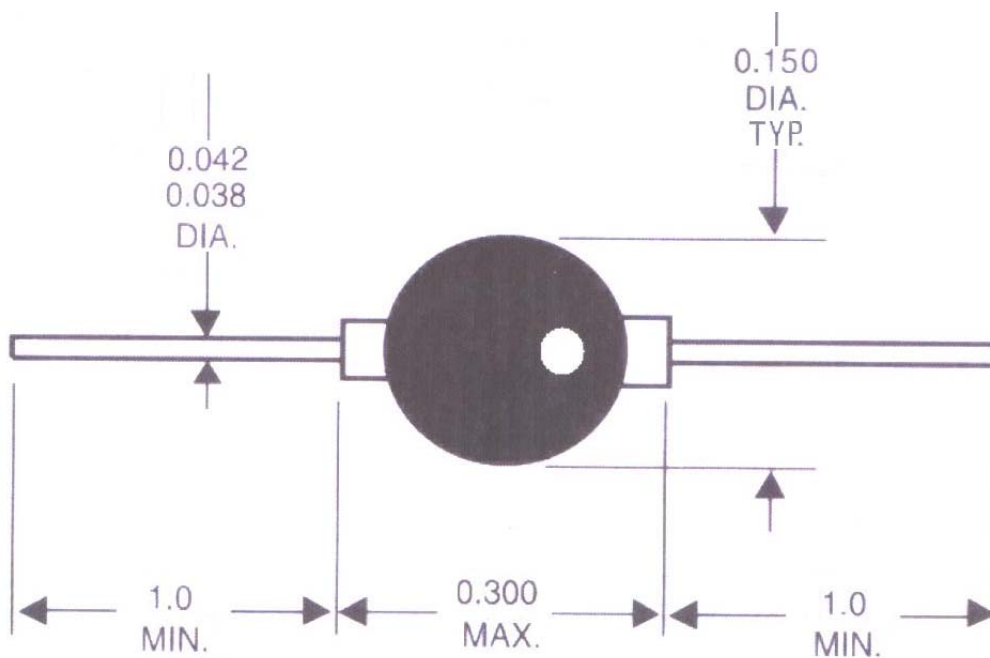
Case: Glass case

Terminals: Plated axial leads

Polarity: Color dot denotes cathode lead. Color also denotes voltage rating

Or

PACKAGE DIMENSIONS (in inches)



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