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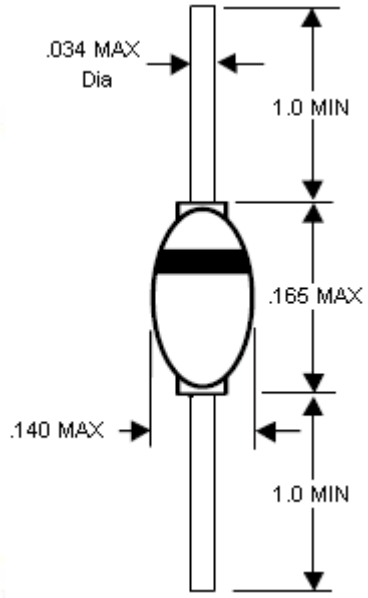
Rectifier Assemblies

Glass Passivated Fast Switching Rectifier

PD5615

PIV: 200VOLTS
Io = 1.5 AMP



Dimensions are in inches.

FEATURES

- High Temperature Metallurgically Bonded Constrction
- Hermetically Sealed Case
- Glass Passivated Cavity-Free Junction
- 1.5A Operation at T_A=55°C
- Typical I_R Less Than 0.1µA
- Capable of Meeting Environmental Standards of MIL-S-19500

MECHANICAL DATA

- Case: SOD-57 Solid Glass Body
- Terminals: Solder Plated Axial Leads, Solderable Per MIL-STD-750, Method 2026
- Polarity: Color Band Denotes Cathode End
- Mounting position: any
- Weight: 0.56 Grams Typical

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating	Symbol	PD5615	Unit
Maximum Repetetive Peak Reverse Voltage	V_{RRM}	200	V
Maximum RMS Voltage	V_{RMS}	140	V
Minimum Reverse Breakdown Voltage, 50 µA	V_{BR}	200	V
Maximum Average Forward Current Ta=55°C	I_{FAV}	1.5	A
Peak Forward Surge Current 8.3ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}	50	A
Maximum Forward Voltage at If= 1.0 A	V_F	1.1	V
Maximum DC Reverse Current at Ta= 25°C Rated DC Blocking Voltage Ta=150°C	I_R	0.5 200	µA
Max Reverse Recovery Time(note1)	T_{rr}	50	ns
Typical Junction Capacitance (note 2)	C_J	45	pF
Typical Thermal Resistance(note 3)	$R_{\Theta JA}$	45.0	°C/W
Junction and Storage Temperature Range	T_J , T_{STG}	-55 to +175	°C

*Reverse recovery test conditions I_F=0.5A, I_R=1.0A, Irr=0.25A)
**Measured at 1.0 MHz and applied reverse voltage of 12 volts.
***Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, PCB mounted