



180 Lafayette Road
North Hampton, NH 03862-2448
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PD6625

Ultra Fast Avalanche Sinterglass Diode

FEATURES

- Glass Passivated
- Hermetically Sealed Axial Leaded Package
- Extremely Fast Switching
- Low Reverse Current
- High Reverse Voltage
- Lead-Free Component
- Low Forward Loss
- Component in Accordance to RoHS 2002/95/EC and WEEE 2002/96/EC
- Internal “Category I” Metallurgical Bonds



APPLICATIONS/BENEFITS

- Military and Other High-Reliability Applications
- Switching Power Supplies
- High Forward Surge Current Capability
- Low Thermal Resistance
- Controlled Avalanche
- Peak Reverse Power Capability

MAXIMUM RATINGS

Peak Forward Surge Current (I_{FSM})($t_p=10ms$, half sinewave).....	150A
Average Rectified Forward Current (I_o)($T_L=+55^{\circ}C$)($L=0.375''$ from body).....	1.5A*
Average Rectified Forward Current (I_o)($T_L=+25^{\circ}C$).....	1A**
Thermal Resistance ($R_{\theta JL}$)($L=0.375''$).....	38 $^{\circ}C/W$
Junction and Storage Temperature Range ($T_j=T_{stg}$).....	-55 $^{\circ}C$ to +175 $^{\circ}C$
Non-Repetitive Reverse Avalanche Energy (E_R)($I_{(BR)R}=0.4A$).....	10mJ
Solder Temperature (10s max).....	260 $^{\circ}C$

*Derate linearly at 0.833%/ $^{\circ}C$ for $T_L>+55^{\circ}C$

** Derate linearly at 0.67%/ $^{\circ}C$ for $T_A>+25^{\circ}C$. This I_o rating is typical for PC boards where thermal resistance from mounting point to ambient is sufficiently controlled where $T_{J(max)}$ is not exceeded

Specifications subject to change without notice to ensure a better product

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ELECTRICAL CHARACTERISTICS

Part Number	Reverse Breakdown Voltage ($V_{(BR)}$)***	Max Forward Voltage $V_F@I_F$		Working Peak Reverse Voltage V_{RWM}	Maximum Reverse Current ($I_R @ V_{RWM}$) I_R		Reverse Recovery Time (t_{rr})****
		V@A	V@A		$T_A=25^{\circ}C$	$T_A=150^{\circ}C$	
PD6625	1100V	1.75V@1.0A	1.95V@1.5A	1000V	1.0 μ A	200 μ A	75ns

*** $I_R=100\mu A$

**** $I_F=0.5A$, $I_R=1A$, $i_R=0.25A$

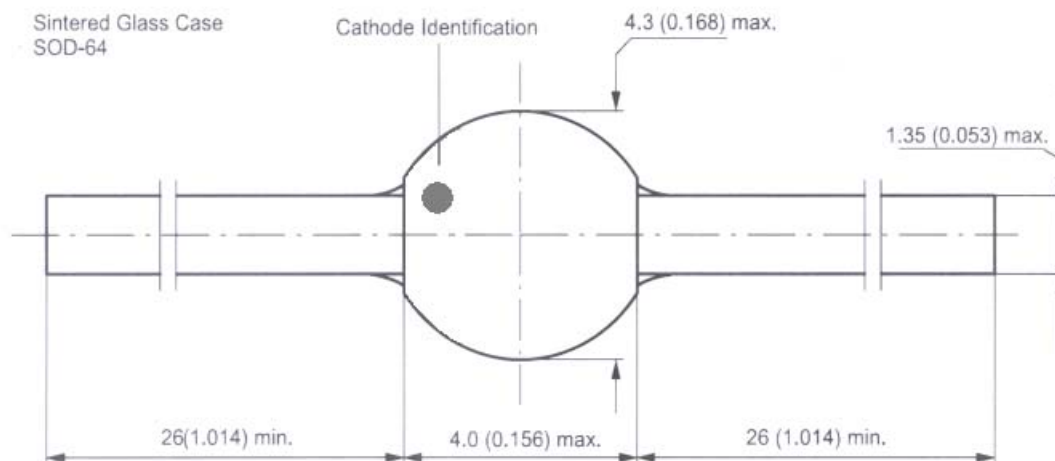
MECHANICAL DATA

Case: SOD-64 Sintered glass case

Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026

Polarity: Color dot denotes cathode lead

PACKAGE DIMENSIONS IN mm (inches)



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