

Photorelay / Solid-State Relay — Selection Checklist

- Load type: AC / DC / analog, expected waveform

- Voltage rating V_{LOAD} (nominal / surge)

- Current: I_{CONT} , I_{SURGE} ; R_{ON} power loss budget

- Leakage target I_{LEAK} and off-capacitance C_{OFF}

- Switching time t_{ON}/t_{OFF} and symmetry needs

- dv/dt environment and snubber requirement

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- Isolation: V_{iso} , working voltage, creepage/clearance
- Compliance: UL/VDE, medical MOPP/MOOP if applicable
- Package & channels; land pattern; MSL
- Thermal path & θ_{JA} ; ambient and enclosure
- Pin-to-pin alternatives; lifecycle (Active/NRND/EOL)
- Test plan: incoming QC for $R_{ON}/I_{LEAK}/$ timing