

PERFORMANCE DATA

Product: PD2401X2

Description: Zero crossing, optically isolated, voltage controlled solid state relay.

ABSOLUTE MAXIMUM RATINGS @ 25°C

Parameters	Value	Units
Load Voltage, Peak AC	500	V
Load Current, Continuous	1	A _{rms}
Load Current, Surge (16ms)	20	A _{peak}
Input Voltage, Forward	10	V
Input Voltage, Reverse	5	V
Input Current, Reverse	10	μA

TEMPERATURE LIMITS

Conditions	Min	Max	Units
Operating	-40	85	°C
Storage	-40	125	°C
Solderability (10 Seconds)	-	260	°C

ELECTRICAL CHARACTERISTICS @ 25°C

Input (Control)	Min	Typ	Max	Units
Must Operate Voltage	3	-	-	V
Normal Operating Range	3	-	7	V
Current @ Vin=3V	4.8	6.6	8.6	mA
Input/Output Isolation	3750	-	-	V _{rms}
Input/Output Capacitance	-	3	-	pF

Output (Load)	Min	Typ	Max	Units
Load Voltage	24	120	280	V _{rms}
Leakage Current @ V _L = 500V	-	-	1	mA
On-State Voltage Drop @ I _L = 1A _{rms}	-	-	1.4	V _{rms}
Zero-cross Voltage-first 1/2 cycle	-	2	5	V
-subsequent 1/2 cycle	-	-	1	V
Turn-on & Turn-off Time	-	-	0.5	ACcycle
Critical Rate of Rise (dv / dt)	600	-	-	V/μsec

PACKAGE: 16-Pin DIP

Pin Out:

