

查询PS1201供应商

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PS1201 AC Power Switch



	PS1201	Units
AC Operating Voltage		V_{RMS}
Load Current	1	A
On-State Voltage Drop	1.2	V_{RMS} ($A_T I_L = 1A$)

Features

- Load Current up to 1A (3A with heat sink)
- Blocking Voltages up to 600V
- 5mA Sensitivity
- Zero-Crossing Detection
- DC Control, AC Output
- Optically Isolated
- TTL and CMOS Compatible
- Low EMI and RFI Generation
- High Noise Immunity
- VDE compatible
- Machine Insertable, Wave Solderable

Applications

- Programmable Control
- Process Control
- Power Control Panels
- Remote Switching
- Gas Pump Electronics
- Contractors
- Large Relays
- Solenoids
- Motors
- Heaters

Description

PS1201 is an AC Solid State Switch utilizing dual power SCR outputs. This device also includes zero turn on circuitry and is available with a blocking voltage up to 600V.

Approvals

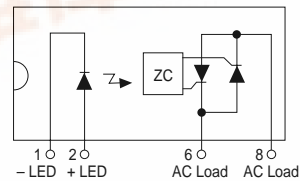
- UL recognized file #: E69938
- CSA certified file #: LR 43639-8

Ordering Information

Part #	Description
PS1201	8 Pin SIP (25/Tube)

Pin Configuration

PS Series Pinout





PS1201

Absolute Maximum Ratings (@ 25° C)

Parameter	Min	Typ	Max	Units
Input Power Dissipation	-	-	150 ¹	mW
Input Control Current	-	-	50	mA
Peak (10ms)	-	-	1	A
Reverse Input Voltage	-	-	5	V
Total Package Dissipation PS	-	-	1600 ²	mW
Isolation Voltage Input to Output	3750	-	-	V _{RMS}
Operational Temperature	-40	-	+85	°C
Storage Temperature	-40	-	+125	°C
Soldering Temperature	-	-	-	-
DIP Package	-	-	+260	°C
Surface Mount Package (10 Seconds Max.)	-	-	+220	°C

¹ Derate Linearly 1.33 mW/C

² Derate Linearly 16.6 mW/C

Absolute Maximum Ratings are stress ratings. Stresses in excess of these ratings can cause permanent damage to the device. Functional operation of the device at these or any other conditions beyond those indicated in the operational sections of this data sheet is not implied. Exposure of the device to the absolute maximum ratings for an extended period may degrade the device and effect its reliability.

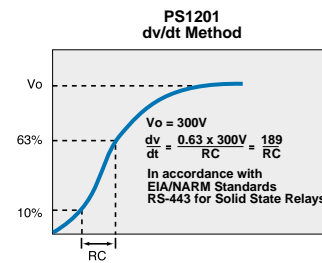
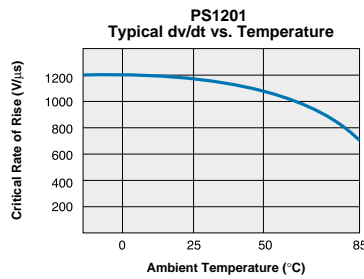
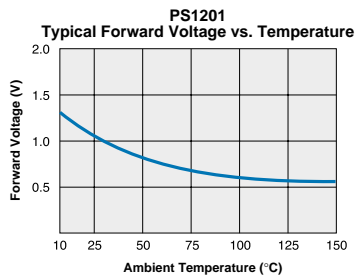
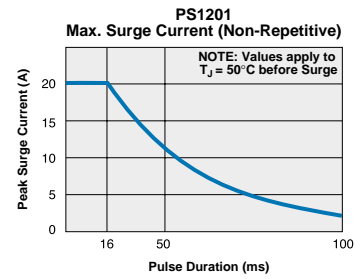
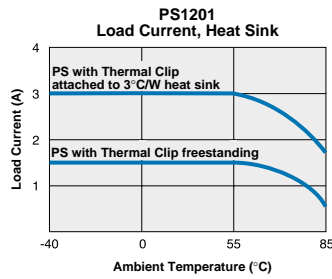
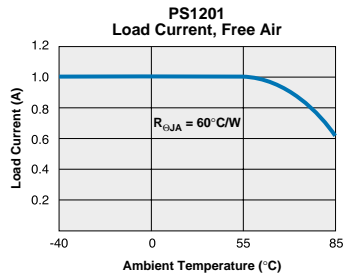
Electrical Characteristics

Parameters	Conditions	Symbol	Min	Typ	Max	Units
Output Characteristics @ 25°C						
Peak Blocking Voltage	-	V _{DRM}	-	-	400	V
Load Current (Continuous)	V _L =120-240VAC	I _L	0.005	-	1	A
Off State Leakage Current	V _{DRM}	I _{LEAK}	-	-	1	mA
On-State Voltage Drop	I _L =1A	-	-	-	1.2	V _{RMS}
Critical Rate of Rise	-	dv/dt	1000	1200	-	V/μS
Switching Speeds						
Turn-on	IF=5 mA	T _{ON}	-	-	0.5	cycles
Turn-off	IF=5 mA	T _{OFF}	-	-	0.5	cycles
Zero-Cross Turn-On Voltage	1st half cycle	-	-	2	5	V
Sub. half cycle	-	-	-	-	1	V
Operating Frequency ¹	-	-	20	-	500	Hz
Load Power Factor for Guaranteed Turn-On ²	-	PF	0.25	-	-	-
Capacitance Input to Output	-	-	-	-	-	pF
Input Characteristics @ 25°C						
Input Control Current	-	-	-	-	-	-
For Normal Environment	-	I _F	5	-	50	mA
For High Noise Environment	-	I _F	10	-	100	mA
Input Voltage Drop	F=5mA	V _F	0.9	1.2	1.4	V
Input Drop-out Voltage	-	-	0.8	-	-	V
Reverse Input Current	V _R =5V	I _R	-	-	10	uA
Common Characteristics @ 25°C						
Input to Output Capacitance	-	C _{I/O}	-	-	3	pF
Input to Output Isolation	-	V _{I/O}	3750	-	-	V _{RMS}

¹ Zero Cross 1st half cycle @ <100Hz

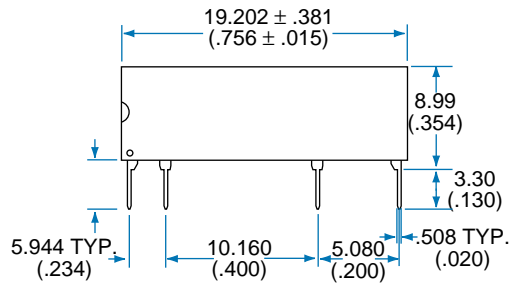
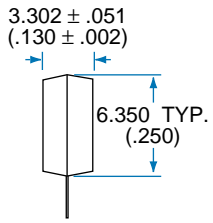
² Snubber circuits may be required at low power factors.

PERFORMANCE DATA*



Mechanical Dimensions

8 Pin SIP





CLARE

MICRO CHIPS.
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Worldwide Sales Offices

CLARE LOCATIONS

Clare Headquarters
78 Cherry Hill Drive
Beverly, MA 01915
Tel: 1-978-524-6700
Fax: 1-978-524-4900
Toll Free: 1-800-27-CLARE

Clare Micronix Division
145 Columbia
Aliso Viejo, CA 92656-1490
Tel: 1-949-831-4622
Fax: 1-949-831-4628

SALES OFFICES

AMERICAS

Americas Headquarters

Clare
78 Cherry Hill Drive
Beverly, MA 01915
Tel: 1-978-524-6700
Fax: 1-978-524-4900
Toll Free: 1-800-27-CLARE

Eastern Region

Clare
P.O. Box 856
Mahwah, NJ 07430
Tel: 1-201-236-0101
Fax: 1-201-236-8685
Toll Free: 1-800-27-CLARE

Central Region

Clare Canada Ltd.
3425 Harvester Road, Suite 202
Burlington, Ontario L7N 3N1
Tel: 1-905-333-9066
Fax: 1-905-333-1824

Western Region

Clare
1852 West 11th Street, #348
Tracy, CA 95376
Tel: 1-209-832-4367
Fax: 1-209-832-4732
Toll Free: 1-800-27-CLARE

Canada

Clare Canada Ltd.
3425 Harvester Road, Suite 202
Burlington, Ontario L7N 3N1
Tel: 1-905-333-9066
Fax: 1-905-333-1824

EUROPE

European Headquarters

CP Clare nv
Bampslaan 17
B-3500 Hasselt (Belgium)
Tel: 32-11-300868
Fax: 32-11-300890

France

Clare France Sales
Lead Rep
99 route de Versailles
91160 Champlan
France
Tel: 33 1 69 79 93 50
Fax: 33 1 69 79 93 59

Germany

Clare Germany Sales
ActiveComp Electronic GmbH
Mitterstrasse 12
85077 Manching
Germany
Tel: 49 8459 3214 10
Fax: 49 8459 3214 29

Italy

C.L.A.R.E.s.a.s.
Via C. Colombo 10/A
I-20066 Melzo (Milano)
Tel: 39-02-95737160
Fax: 39-02-95738829

Sweden

Clare Sales
Comptronic AB
Box 167
S-16329 Spånga
Tel: 46-862-10370
Fax: 46-862-10371

United Kingdom

Clare UK Sales
Marco Polo House
Cook Way
Bindon Road
Taunton
UK-Somerset TA2 6BG
Tel: 44-1-823 352541
Fax: 44-1-823 352797

ASIA/PACIFIC

Asian Headquarters

Clare
Room N1016, Chia-Hsin, Bldg II,
10F, No. 96, Sec. 2
Chung Shan North Road
Taipei, Taiwan R.O.C.
Tel: 886-2-2523-6368
Fax: 886-2-2523-6369

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