DC - DC HIGH VOLTAGE SOLID STATE RELAYS
SDD - 1200- 25/40 SERIES

Features

Load current 25 & 40 A @1200 VDC
Load voltage 1200 VDC
Isolation voltage 2500 VRMS
Fast switching response
Normal Open Type
Chassis mounting /Panel Mount Switches
High voltage SSR based on IGBT Technology
LED Indicator showing relay ON status
In-built free wheeling diode across power device

Input Specifications

Description	Suffix- 12	Suffix- 24
Control Voltage	12VDC	24 VDC
Nominal Control Voltage Range	8-16 VDC	20-28 VDC
Minimum Turn-On voltage	8VDC	20 VDC
Minimum Turn-Off Voltage	1.0VDC	1.0 VDC
Input Current at Nominal Voltage	15mA	15 mA
Turn-On Time (msec)	1.5	1.5
Turn-Off Time (msec)	1.5	1.5

*For Input Control voltage 3-32VDC NO Suffix

Output Specifications

	25 Amps SDD-1200-25- 12/24	40 Amps SDD-1200-40-12/24
Operating Voltage	0 - 1200 VDC	0 – 1200VDC
Max. Transient Over voltage VPK	1200	1200
Max. Off State Leakage Current @ rated voltage	0.3mA	0.3mA
Max. Load Current	25 Adc	40 Adc
Min. Load Current	20 mA	20 mA
Max surge current Adc 10ms	75 Adc	120 Adc
Max. On- state Voltage Drop @ Rated current (VDC)	1.6	1.6
Thermal Resistance Junction to Case	0.4 °C/W	0.25°C/W
Collector to Emitter Saturation Voltage I_C = 25A V_{GE} = 15V T_C = 125 °C	2.15 V	2.9 V

General Specifications

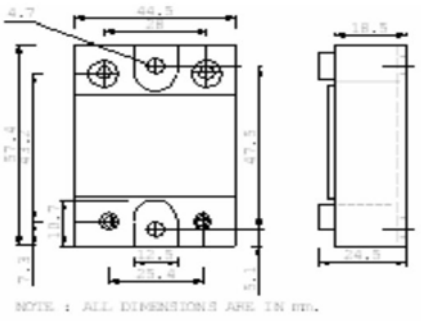
Dielectric Strength Input/ Output/ Base	2500 VRMS
Min Insulation Resistance	10 ৩ Ohm
Max. Capacitance Input/ Output	50pf
Ambient Operating Temperature range	- 30 to 80°C
Ambient Storage Temp range	- 40 to 125 °C
Encapsulation	thermally conductive Epoxy
Weight	100 gms

All parameters at 25°C unless otherwise specified
In-built freewheeling diode across the power device.

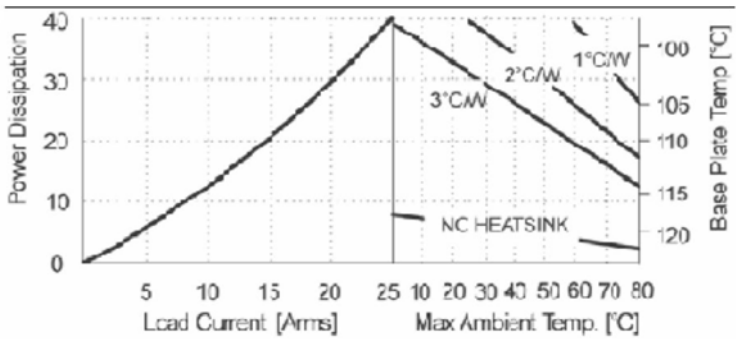
Note: Inductive loads should be diode suppressed.

All loads are inductive even ones that are not so labeled. When turned off an inductive load will produce harmful transient voltages. The more perfect the switch the larger the transient voltages. The IGBT output is so nearly an ideal switch that the transient voltages produced by seemingly 'non-inductive 'loads can cause damage if not suppressed. Diodes should be fast recovery type with PIV rated greater than supply voltage.

Dimensions



THERMAL DERATING CURVE



SATRONIX (INDIA) Pvt.Ltd.

OFFICE: 412, Laxmi Plaza, Laxmi Indl. Est., Link Rd, Andheri (W), Mumbai- 400 053.INDIA Tel/Fax: 91 22 26325242
Works:Unit No. 1,Electronic Sadan 1/Unit No.12, Electronic Sadan 3,Bhosari MIDC, PUNE –411026,INDIA
Tele: 91(20) 27122758 FAX: 91(20) 27122758
Email: sales@satronixindia.comsatronix@bom3.vsnl.net.in