



DC - DC HIGH VOLTAGE SOLID STATE RELAYS

SDD - 1000- 25/40 SERIES

Features

- Load current 25 & 40 A @1000 VDC
- Load voltage 1000 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

Output Specifications

	25 Amps SDD-1000-25- 12/24	40 Amps SDD-1000-40-12/24
Operating Voltage	0 - 1000 VDC	0 – 1000VDC
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

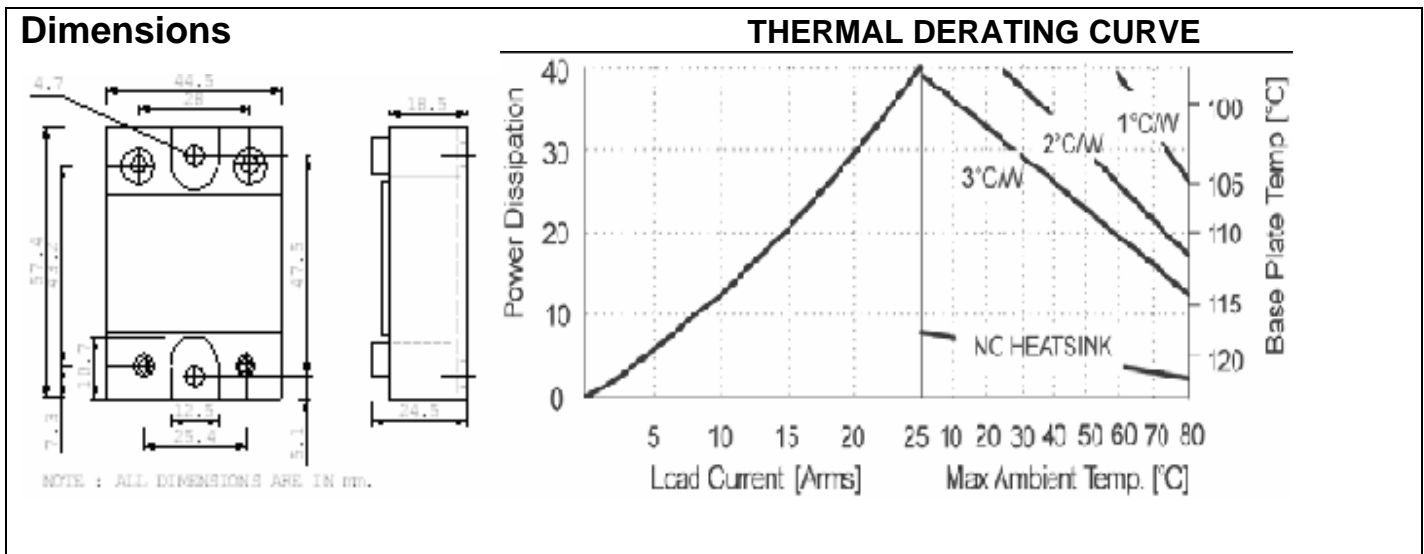
General Specifications

Dielectric Strength Input/ Output/ Base	2500 VRMS
Min Insulation Resistance	10 ⁹ 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.



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