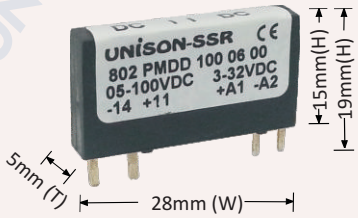
UNISON CONTROLS PVT. LTD.

SOLID STATE RELAY

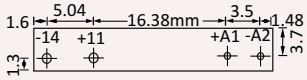
ISO 9001:2015 & ISO 14001:2015 CERTIFIED by InterConformity GmbH

6AMP - MODEL 802 PMDD 100 06 00

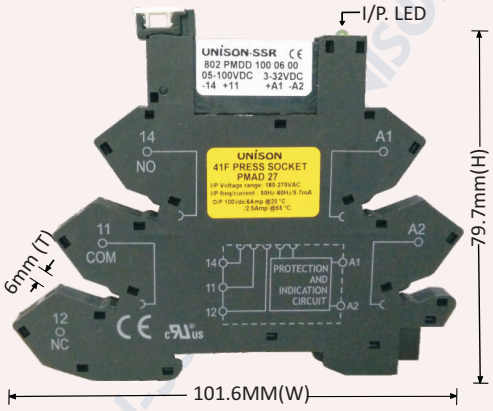


Weight: 4gms SSR

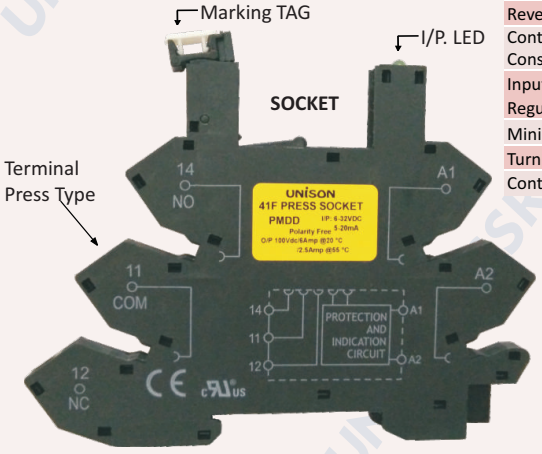
Bottom View







PMDD : 6 to 32VDC/5-20mA (Polarity Free Input)
PMAD 13 : 90 to 130VAC/50Hz-60Hz/5-7mA
PMAD 27 : 180 to 270VAC/50Hz-60Hz/5-7mA



Weight: 30gms Socket

General Specification

Max Barrier Layer Temperature (T_{max})	< 125 °C
Ambient Temperature Range (T_{amb})	0-85 °C
SSR Storage Temperature Range (Tst)	-40°C to 80°C
Housing Material	UL-94 V0 Grade
Socket Weight	30 grams
Weight : SSR / SOCKET	4 grams / 30 grams
Control Input Electrical Wire Size (Max.)	1.5 mm² Pin Type Lugs
Power Output Electrical Wire Size (Max.)	1.5 mm² Pin Type Lugs
Test Standards:	ROHS,IP20
Pending Approvals:	UL 508,VDE ,TUV ,CSA 22-2 IEC 60947-5-1:2016 IEC 62314:2006





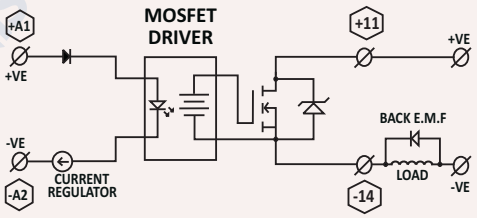
Difference Between Power MOSFET & Transistor

Power MOSFET	Transistor
High Speed ON/OFF (High Frequency)	Low Speed ON/OFF
High Power Capacity	Low Power Capacity
Voltage Drop Across Power MOSFET is Less	Voltage Drop Across Transistor is more
Size of Heat sink less	Size of Heat sink is more

OUTPUT DC CONTROL COOL POWER MOSFET CONTROL TECHNOLOGY

- Switching Speeds are Inherently Faster.
- No need to De-rate Power Handing Capacity.
- Input LED Indication with SOCKET
- Ultra Low on State Resistance
- Ultra Low Output Leakage Current
- Isolated Drivers
- N/O Configurations only.
- Reverse Polarity Protection on Input Side

PMDD- POWER MOSFET DC TO DC



Across the Load Back EMF Diode is must for High Frequency ON/OFF

Input Technical Specifications

Parameters	Unit	SSR	41F Press SOCKET		
		PMDD	PMDD	PMAD 13	PMAD 27
Control Voltage Range	V	3-32 VDC	6-32 VDC	90-130 VAC	180-270 VAC
Reverse Polarity Protection	-	YES	Polarity Free	-	-
Control Supply Current Consumption	mA	5-15 mA	5-20 mA	5 - 7 mA	5 - 7 mA
Input Impedance (Current Regulator Circuit Impedance)	Ω	1 kΩ - 2 kΩ	1 kΩ - 1.6 kΩ	18.5 kΩ	38.5 kΩ
Minimum Turn ON Voltage	VDC	2.6 VDC	5.5 VDC	80 VAC	150 VAC
Turn OFF Voltage	VDC	< 2.5 VDC	< 5.4 VDC	< 70 VAC	< 140 VAC
Control Input Status Indication	-	-	Green LED Indication	Green LED Indication	Green LED Indication

Output Technical Specifications @ 25°C Unless Specified

Parameters	Symbol	Unit	100V / 06Amp
Output Circuit - Switching Element		POWER MOSFET	
Operating Output DC Voltage Range	V	VDC	5-100
Continuos Drain Current @ 20°C	I_D	***Amp***	***6***
Continuos Drain Current @ 55°C	I_D	***Amp***	***2.5***
Maximum Drain To Source Break Down Voltage	$V_{(BR)DSS}$	VDC	100
Static Drain To Source ON Resistance	$R_{DS(ON)}$	Ohm	0.03
On state Voltage Drop @ Rated Current	V_{DSS}	VDC	< 0.7
Power Dissipation	P_D	W	120
Required minimum LOAD current	mA_{DC}	mA	3
Max. OFF State Drain To Source Leakage Current @V_{GS} =0, T_j =125°C	I_{DSS}	mA	0.2
Pulsed Drain current (less than 60 µS Pulse)	I_{DM}	Amp	100
Output Capacitance	C_{OSS}	pF	300
Peak Diode Recovery dv/dt	dv/dt	V/nS	5
SSR Turn ON Delay Time	$T_{D(ON)}$	mS	1.8
SSR Turn Off Delay Time	$T_{D(OFF)}$	mS	< 0.04
Minimum Isolation Resistance between Input Terminals (+A1,-A2) to Output Terminals (+11,-14) @ 500 VDC	Ω	GΩ	1
Isolation Voltage Input Terminals (+A1,-A2) to Output Terminals (+11,-14) for 1 Minute	V_{ISO}	kV	2.5
Maximum Junction Temperature	$T_{j(max.)}$	°C	150 °C
Thermal Resistance Rθ (Junction To Case)	$R_{\theta(j-c)}$	°C/W	0.7

Note : Specifications are subject to change without prior notice.

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