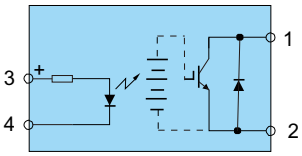
High-power SSR

Single-phase high-power DC SSR-3F

Product

- Panel mount
- Load: 10A, 20A, 50A, 80A
- Dielectric strength: 2500VAC
- Load voltage: 30VDC, 60VDC, 100VDC, 200VDC



Ordering Reference

YS-3F/□ □ □

Input voltage
D:4-32VDC

Load voltage
30D: 30VDC, 60D: 60VDC, 100D: 100VDC,
200D: 200VDC

Load current
10: 10A, 20: 20A, 50: 50A, 80:50A

Under certification

Application

- Household appliances: Air conditioner, humidifier, etc.
- Medical treatment and medical devices
- Industry machines: CNC machine, injection molding machine, heating furnace, reflow Oven, robot, etc.

Model/Package

Model/specification	Off-state peak voltage				On-state RMB current	Package quantity
D30D80	30VDC				80A	2 PCS/box 105 boxes/carton
D60D50		60VDC			50A	
D100D20			100VDC		20A	
D200D10				200VDC	10A	

Technical parameters

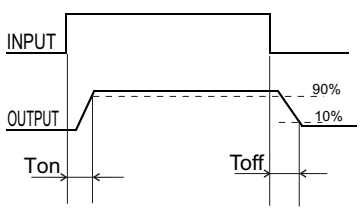
■ Max rated parameters （Environment temperature：25℃）

Item		Symbol	D30D80	D60D50	D100D20	D200D10	Unit
Input	Work voltage		4 ~ 32				V
	Turn-on voltage	V_{TON}	4				V
	Turn-o ffvoltage	V_{TOFF}	1				V
Output	On-state RMB current	IT(RMS)	80	50	20	10	A
	Surge current(10ms)	I TSM	200	150	60	30	A
	Repetitive peak off-state voltage	V DRM	30	60	150	200	V DC
	On-state Resistance	R_{on}	6	7	13	60	mΩ
Dielectic voltage	Input-output	Viso	2500				VAC
Temperature	Work temperature	Topr	-30 ~ 80				℃
	Storage temperature	Tstg	-40 ~ 100				℃

■ Electric parameters (Environment temperature 25℃)

Item		Symbol	Test condition	Min	Typical	Max	Unit
Input	Max input current	I_{max}	V_{in}= Max			20	mA
	Max input voltage	V_{max}	V_{in}= Max			32	V
	Polar-reversed voltage	V_R	V_{in}= - Max			-32	V
Output	Output leakage current	I leak	Load voltage			0.1	m A
	Min. Load current	I load		2			m A
Transmission	Turn-0n time	Ton				0.1	mS
	Turn-off time	T off				0.2	mS
	Insulation resistance	R_{iso}	500VDC(input-output)			1000	MΩ
Other	Weight				88		g

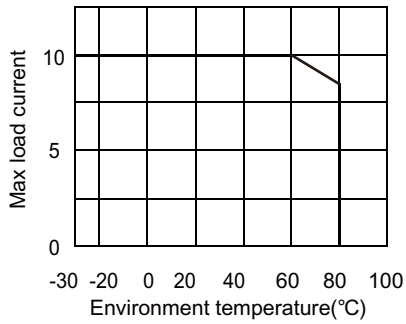
■ Switch Time Waveform:



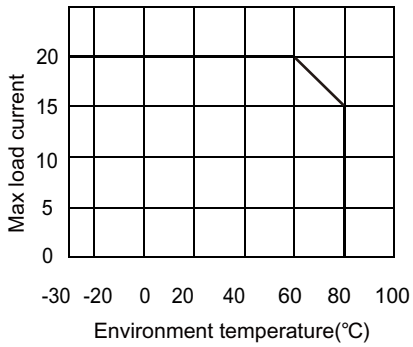
Technical parameters

Characteristic curve

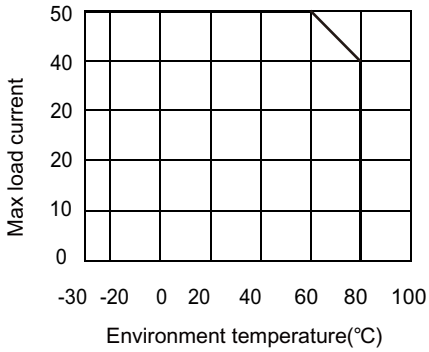
D200D10



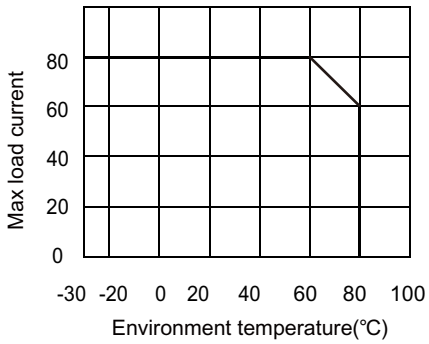
D100D20



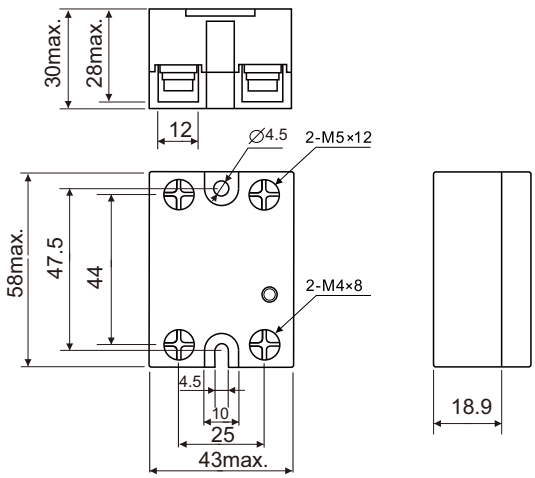
D60D50



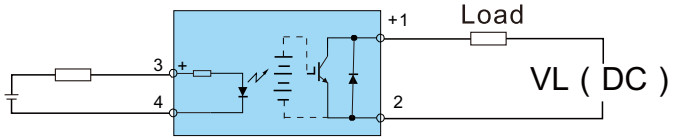
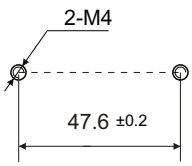
D30D80



Outline dimensions(mm)



Connection diagram



Mouning holes(mm)