

PR3BMF51NSLF

$I_T(\text{rms}) \leq 1.2\text{A}$, Non-Zero Cross type
DIP 8pin
Triac output SSR



■Description

PR3BMF51NSLF Solid State Relay (SSR) is an integration of an infrared emitting diode (IRED), a Phototriac Detector and a main output Triac. This device is ideally suited for controlling high voltage AC loads with solid state reliability while providing 4kV isolation ($V_{\text{iso}}(\text{rms})$) from input to output.

■Features

1. Output current, $I_T(\text{rms}) \leq 1.2\text{A}$
2. Non-zero crossing functionary
3. 8 pin DIP package
4. High repetitive peak off-state voltage ($V_{\text{DRM}} : 600\text{V}$)
5. Superior noise immunity ($dV/dt : \text{MIN. } 100\text{V}/\mu\text{s}$)
6. Response time, $t_{\text{on}} : \text{MAX. } 100\mu\text{s}$
7. High isolation voltage between input and output ($V_{\text{iso}}(\text{rms}) : 4\text{kV}$)
8. RoHS directive compliant

■Agency approvals/Compliance

1. Approved by UL file No.E94758 (as model No.**R3BMF5**)
2. Approved by CSA file No.LR63705 (as model No.**R3BMF5**)
3. Optionary approved by VDE (DIN EN 60747-5-5), file No.40008898 (as model No.**R3BMF5**)
4. Package resin : UL flammability grade (94V-0)

■Applications

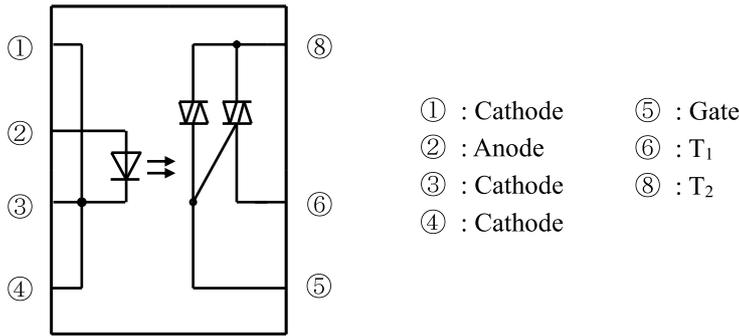
1. Isolated interface between high voltage AC devices and lower voltage DC control circuitry.
2. Switching motors, fans, heaters, solenoids, and valves.
3. Phase or power control in applications such as lighting and temperature control equipment.

Notice The content of data sheet is subject to change without prior notice.

In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP device.

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■ Pin-Number and internal connection diagram



■ Outline

Marking is laser marking
 *1) 2-digit number shall be marked according to OLD DIN standard.
 *2) Factory identification mark applies to the below.
 Without : SUN-S Corporation (Japan)
 : SUN-S Electronic Technology (KUNSHAN) Co. Ltd (China)
 *3) Business dealing name identification mark : —

Product mass : Approx. 0.56g

Pin material : Copper Alloy
 Pin finish : SnCu plating (Cu : TYP. 2%)

UNIT : 1/1 mm	
Name	R3BMF5 Outline Dimensions (Business dealing name : PR3BMF51NSLF)