





## ■ Solid State Relay Lineup

| Package  | Applied voltage | ON-state current (rms) | Features                    | Model No.   | Page |
|--|-----------------|------------------------|-----------------------------|---|------|
| DIP 6-pin<br> | AC 100 V lines  | 0.15 A                 | General purpose             | PR22MA11NTZF▲   | 31   |
|  | AC 200 V lines  | 0.06 A                 | General purpose             | PR31MA11NTZF  | 31   |
|  |                 | 0.15 A                 | General purpose             | PR32MA11NTZF  | 31   |
| DIP 8-pin<br> | AC 200 V lines  | 0.3/0.6/0.9/1.2 A      | General purpose             | PR33MF5 series / PR39MF5 series /<br>PR36MF5 series / PR3BMF5 series /<br>PR36MF12NSZF▲ | 31   |
|  |                 | 0.6/0.9/1.2 A          | Built-in zero-cross circuit | PR36MF2 series / PR39MF2 series   | 31   |

The model marked with ▲ may not be available in the near future. Contact with SHARP for details before use.



## ■ Solid State Relays

<DIP type>

○: Approved

(Ta = 25°C)

| Model No.     | Internal connection diagram | Features  | Approved by safety standards*1 |     |       | Package   | Absolute maximum ratings                  |  |  | Electrical characteristics   |
|---------------|-----------------------------|---|--------------------------------|-----|-------|-----------|---|--|--|--|
|               |                             |   | UL                             | CSA | VDE*2 |           | ON-state current I <sub>T</sub> (rms) (A) | Repetitive peak OFF-state voltage V <sub>DRM</sub> (V) | Isolation voltage (AC) V <sub>iso</sub> (rms) (kV) | Min. trigger current I <sub>FT</sub> (mA) MAX. V <sub>D</sub> = 6 V, R <sub>L</sub> = 100Ω |
| PR22MA11NTZF▲ |                             | 100 V lines, 150 mA model in a small package                          | ○                              | ○   | ○     | 6-pin DIP | 0.15                                      | 400  | 5.0  | 10   |
| PR31MA11NTZF  |                             | 200 V lines, compact  | ○                              | ○   | ○     |           | 0.06                                      | 600  |  | 10   |
| PR32MA11NTZF  |                             | 200 V lines, 150 mA model in a small package                          | ○                              | ○   | ○     |           | 0.15                                      |  |  | 10   |
| PR33MF51NSLF  |                             | 200 V lines, compact  | ○                              | ○   | ○     | 8-pin DIP | 0.3                                       | 600  | 4.0  | 10   |
| PR33MF52NSLF  |                             | 200 V lines, compact  | ○                              | ○   | ○     |           |   |  |  | 10   |
| PR36MF51NSLF  |                             | 200 V lines, compact  | ○                              | ○   | ○     |           | 0.6                                       |  |  | 10   |
| PR36MF12NSZF▲ |                             | 200 V lines, compact, low input current                               | ○                              | ○   | ○     |           |   |  |  | 5  |
| PR39MF51NSLF  |                             | 200 V lines, compact  | ○                              | ○   | ○     |           | 0.9                                       |  |  | 10   |
| PR3BMF51NSLF  |                             | 200 V lines, compact  | ○                              | ○   | ○     |           | 1.2                                       |  |  | 10   |
| PR3BMF52NSZF▲ |                             | 200 V lines, compact, low input current                               | ○                              | ○   | ○     |           |   |  |  | 5  |
| PR36MF21NSZF  |                             | 200 V lines, compact (built-in zero-cross circuit)                    | ○                              | ○   | ○     | 0.6       | 600                                       | 4.0  | 10   |  |
| PR36MF22NSZF  |                             | 200 V lines, compact (built-in zero-cross circuit), low input current | ○                              | ○   | ○     |           |   |  | 5  |  |
| PR39MF22NSZF  |                             | 200 V lines, compact (built-in zero-cross circuit), low input current | ○                              | ○   | ○     | 0.9       |   |  | 5  |  |

\*1 Please refer to Specification Sheets for model numbers approved by safety standards.

\*2 Optionally available.

The model marked with ▲ may not be available in the near future. Contact with SHARP for details before use.



PR22MA11NTZF  
(6-pin DIP)



PR36MF21NSZF  
(8-pin DIP)

### 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.

Except where specially indicated, models listed on this page comply with the RoHS Directive\*. For details, please contact SHARP.  
\*RoHS Directive: Prohibits use of lead, cadmium, hexavalent chromium, mercury and specific brominated flame retardants (PBBs and PBDEs), with certain exceptions.

Contact SHARP in order to obtain the latest device specification sheets before using any SHARP device.