





## ■ Solid State Relay Lineup

Package	Applied voltage	ON-state current (rms)	Features	Model No.	Page
DIP 6-pin 	AC 200 V lines	0.06 A	General purpose	PR31MA11NTZH	20
		0.15 A	General purpose	PR32MA11NTZH	20
DIP 8-pin 	AC 200 V lines	0.3/0.6/0.9/1.2 A	General purpose	PR33MF5 series / PR36MF5 series / PR39MF5 series / PR3BMF5 series	20
		0.6/0.9 A	Built-in zero-cross circuit	PR36MF2 series / PR39MF2 series	20



## ■ Solid State Relays

<DIP type>

(Ta = 25°C)

Model No.	Internal connection diagram	Features	Approved by safety standards*1			Package	Absolute maximum ratings			Electrical characteristics Min. trigger current I <sub>FT</sub> (mA) MAX. V <sub>D</sub> = 6 V, R <sub>L</sub> = 100Ω
			UL	CSA	VDE		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)	
PR31MA11NTZH		200 V lines, compact	○	○	—	6-pin*3 DIP	0.06	600	5.0	10
PR32MA11NTZH		200 V lines, 150 mA model in a small package	○	○	—	6-pin*3*5 DIP	0.15			10
PR33MF51NSLH		200 V lines, compact	○	○	○*2	8-pin*3*5 DIP	0.3	600	4.0	10
PR33MF52NSLH		200 V lines, compact	○	○	—	8-pin*3 DIP				5
PR36MF51NSLH		200 V lines, compact	○	○	—	8-pin*3*5 DIP	0.6			10
PR39MF51NSLH		200 V lines, compact	○	○	○*2		0.9			10
PR3BMF51NSLH		200 V lines, compact	○	○	—		1.2			10
PR36MF21NSZH			200 V lines, compact (built-in zero-cross circuit)	○	○	—	8-pin*3 DIP			600
PR36MF22NSZH	200 V lines, compact (built-in zero-cross circuit), low input current		○	○	—	0.6		5		
PR39MF22NSZH	200 V lines, compact (built-in zero-cross circuit), low input current		○	○	—	0.9		5		

Note: Please confirm with our sales representatives concerning inquiries related to acquisition of international safety standard compliance certification.

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

\*2 Optionally available.

\*3 These are 5th-pin cut type.

\*4 These are 7th-pin cut type.

\*5 Lead forming type is also available for surface mounting.



### 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 EU RoHS Directive\*. For details, please contact SHARP.

\*EU RoHS Directive: EU legislation restricting the use of lead, cadmium, hexavalent chromium, mercury, specific brominated flame retardants (PBB and PBDE), and phthalates (DEHP, BBP, DBP, DIBP).

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