(Unit: mm)

PR26MF11NSZ Series/ PR36MF11NSZ Series

■ Features

- 1. Compact 8-pin dual-in-line package type
- 2. RMS ON-state current I_{T(rms)}:0.6A
- 3. Built-in zero-cross circuit

(PR26MF21NSZ/PR36MF21NSZ)

4. High repetitive peak OFF-state voltage PR26MF11NSZ/PR26MF21NSZ V_{DRM}:MIN. 400V PR36MF11NSZ/PR36MF21NSZ V_{DRM}:MIN. 600V

- 5. Isolation voltage between input and output $(V_{iso(rms)}:4kV)$
- Recognized by UL, file No. E94758 (PR26MF11NSZ/PR36MF11NSZ)
- Approved by CSA No. LR63705 (PR26MF11NSZ/PR36MF11NSZ)
- 8. PR26MF21NSZ/PR36MF21NSZ:under preparation

for UL and CSA

■ Applications

1. Various types of home appliances

■ Model Line-up

	For 100V line	For 200V line
No built-in zero- cross circuit	PR26MF11NSZ	PR36MF11NSZ
Built-in zero- cross circuit	PR26MF21NSZ	PR36MF21NSZ

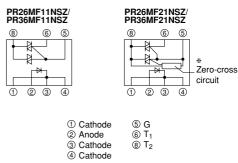
■ Ak	osolute	Maximu	ım Ratii	ngs (Ta=25°C)	
	Parameter		Symbol	Rating	Unit	
Innut	*1 Forward current		IF	50	mA	
Input -	Reverse voltage		VR	6	V	
	*1 RMS ON-state current		IT (rms)	0.6	A	
	Peak one cycle surge current		Isurge	6 (50Hz sine wave)	A	
	Repetitive	PR26MF11NSZ		100		
Output	peak OFF-state	PR26MF21NSZ		400		
		PR36MF11NSZ	VDRM		V	
	voltage	PR36MF21NSZ		600		
*2 Isolation voltage		Viso (rms)	4.0	kV		
Operating PR36MF11NSZ PR36MF11NSZ PR36MF21NSZ PR36MF21NSZ PR36MF21NSZ Storage temperature			25.4 .95	°C		
			-25 to +85			
		Торг	20			
			-30 to +85			
		Tstg	-40 to +125	°C		
Soldering temperature		Teel	260 (For 10s)	°C		

^{*1} The derating factors of absolute maximum ratings due to ambient temperature are shown in Fig.1, 2

8-Pin DIP Type SSR for Low Power Control

■ Outline Dimensions

2.54^{±0.25} (Model No.) R26MF1 Anode R26MF2 mark R36MF1 R36MF2 $9.66^{\pm0.5}$ $7.62^{\pm0.3}$ 0.26^{±0.1} θ:0 to 13° **★Zero-cross circuit for (PR26MF21NSZ/PR36MF21NSZ)** Internal connection Diagram PR26MF11NSZ/ PR26MF21NSZ/ PR36MF21NSZ PR36MF11NSZ



Terminal ①, ③ and ④ are common ones of cathode.To radiate the heat, solder all of the lead pins on the pattern of PWB.

^{*2} AC for 1 min, 40 to 60%RH, f=60Hz

■ Electrical Characteristics (Ta=25°C)										
Parameter			Symbol	Conditions	MIN.	TYP.	MAX.	Unit		
Input	Forward voltage		VF	I _F =20mA	_	1.2	1.4	V		
	Reverse current		IR	$V_R=3V$	_	_	10	μΑ		
Output	Repetitive peak OFF-state current		Idrm	$V_D=V_{DRM}$	_	_	100	μΑ		
	ON-state voltage		VT	I _T =0.6A	_	_	3.0	V		
	Holding current		Ін	V _D =6V	_	_	25	mA		
	Critical rate of rise of OFF-state voltage		dV/dt	$V_D=1/\sqrt{2} \cdot V_{DRM}$	100	_	_	V/µs		
	Zero-cross voltage	PR26MF21NSZ PR36MF21NSZ	Vox	I _F =15mA, R load	_	_	35	v		
Transfer charac- teristics	Minimum trigger current		Ift	$V_D=6V$, $R_L=100\Omega$	_	_	10	mA		
	Isolation resistance		Riso	DC=500V, 40 to 60%RH	5×10 ¹⁰	1011	_	Ω		
	Turn-on time	PR26MF11NSZ/PR36MF11NSZ PR26MF21NSZ/PR36MF21NSZ	Lon	V _D =6V, R _L =100Ω, I _F =20mA	_	_	100 50	μs		

Fig.1 RMS ON-state Current vs. Ambient Temperature (PR26MF11NSZ/PR36MF11NSZ)

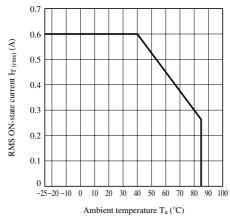


Fig.3 Forward Current vs. Ambient Temperature (PR26MF11NSZ/PR36MF11NSZ)

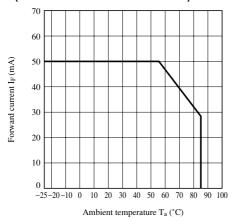


Fig.2 RMS ON-state Current vs. Ambient Temperature (PR26MF21NSZ/PR36MF21NSZ)

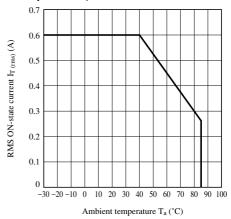


Fig.4 Forward Current vs. Ambient Temperature (PR29MF21NSZ/PR39MF21NSZ)

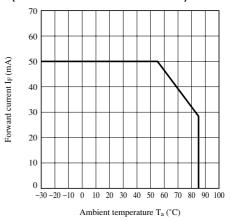


Fig.5 Forward Current vs. Forward Voltage

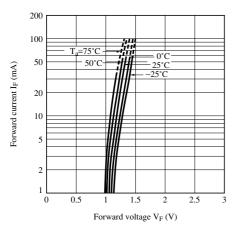


Fig.7 Minimum Trigger Current vs. Ambient Temperature (PR26MF21NSZ/PR36MF21NSZ)

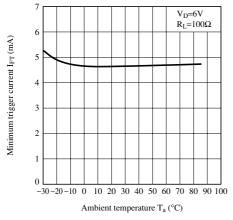


Fig.9 ON-state Voltage vs. Ambient Temperature (PR26MF21NSZ/PR36MF21NSZ)

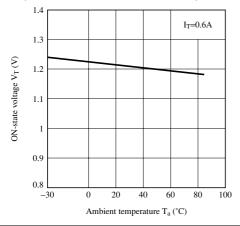


Fig.6 Minimum Trigger Current vs. Ambient Temperature

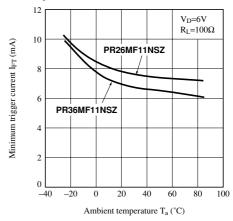


Fig.8 ON-state Voltage vs. Ambient Temperature (PR26MF11NSZ/PR36MF11NSZ)

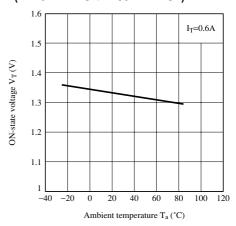


Fig.10 Relative Holding Current vs. Ambient Temprature (PR26MF11NSZ/PR36MF11NSZ)

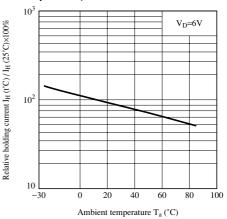


Fig.11 Relative Holding Current vs. Ambient Temperature (PR26MF21NSZ/PR36MF21NSZ)

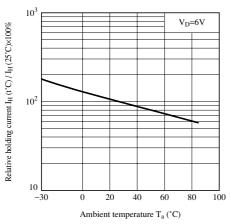


Fig.13 ON-state Current vs. ON-state Voltage (PR26MF11NSZ/PR36MF11NSZ)

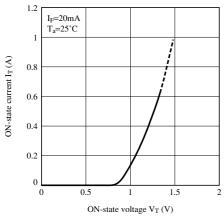


Fig.15 Turn-on Time vs. Forward Current (PR26MF11NSZ)

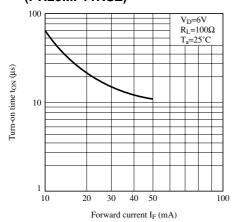


Fig.12 Zero-cross Voltage vs. Ambient Temperature (PR26MF21NSZ/PR36MF21NSZ)

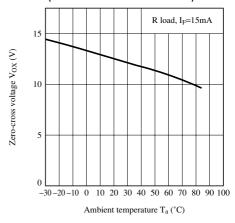


Fig.14 ON-state Current vs. ON-state Voltage (PR26MF21NSZ/PR36MF21NSZ)

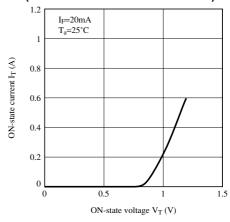


Fig.16 Turn-on Time vs. Forward Current (PR36MF11NSZ)

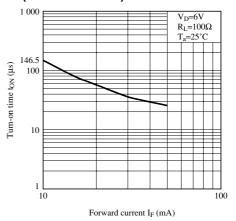
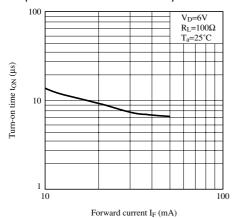


Fig.17 Turn-on Time vs. Forward Current (Typical Value) (PR26MF21NSZ/PR36MF21NSZ)



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