PR36MF22NSZ/ PR39MF22NSZ

■ Features

- 1. Compact 8-pin dual-in-line package type.
- 2. RMS ON-state current I_{T(rms)}:0.6A, 0.9A
- 3. Built-in zero-cross circuit.
- 4. High repetitive peak OFF-state voltage. (V_{DRM}:MIN. 600V)
- 5. Isolation voltage between input and output. $(V_{iso(rms)};4kV)$
- 6. Under preparation for UL and CSA.

■ Applications

1. Various types of home appliances

■ Model Line-up

RMS ON-state current (rms)	Model No.
0.6A	PR36MF22NSZ
0.9A	PR39MF22NSZ

■ Absolute Maximum Ratings (T _a =2	5°C	7)
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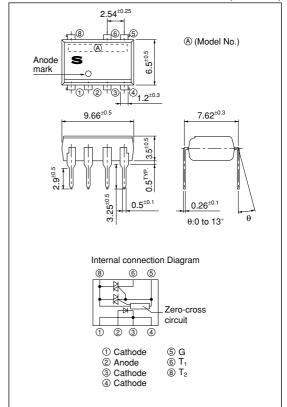
Parameter		Symbol	Rating	Unit		
out	*1Forward current Reverse voltage		I_F	50	mA	
In			V_R	6	V	
	*1 RMS ON-state	PR36MF22NSZ	т	0.6	A	
	current	PR39MF22NSZ	I _{T (rms)}	0.9		
	*2 Peak one cycle	PR36MF22NSZ	т	6		
	surge current	PR39MF22NSZ	I _{surge}	9	A	
	Repetitive peak OFF-state voltage		V _{DRM}	600	V	
*3	*3 Isolation voltage		V _{iso (rms)}	4.0	kV	
Operating temperature		Topr	-30 to +85	°C		
Storage temperature		T _{stg}	-40 to +125	°C		
Soldering temperature		T _{sol}	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

(Unit: mm)



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 50}Hz sine wave

^{*3} AC for 1 min, 40 to 60%RH, f=60Hz

■ Electr	ical Character	ristics					($(T_a=25^{\circ}C)$
Parameter			Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Input	Forward voltage		V _F	$I_F=20mA$	_	1.2	1.4	V
	Reverse current		I_R	$V_R=3V$	_	_	10	μΑ
	Repetitive peak OFF-state current		I_{DRM}	$V_D = V_{DRM}$	_	_	100	μΑ
	ON-state voltage	PR36MF22NSZ	V _T	$I_{T}=0.6A$		_	3.0	V
Output		PR39MF22NSZ		I _T =0.9A] -			·
	Holding current		I_{H}	$V_D=6V$	_	_	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		Vox	I _F =10mA, R load	_	_	35	V
Transfer charac- teristics	Minimum trigger current		I_{FT}	$V_D = 6V, R_L = 100\Omega$	_	_	5	mA
	Isolation resistance		R _{ISO}	DC=500V, 40 to 60%RH _F	5×10 ¹⁰	10^{11}	_	Ω
	Turn-on time		ton	Vp=6V Rr=100Q Ir=10mA	_	_	50	IIS

Fig.1 RMS ON-state Current vs. Ambient Temperature

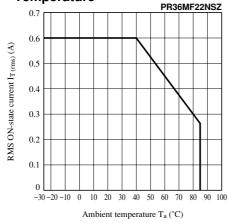


Fig.3 Forward Current vs. Ambient Temperature

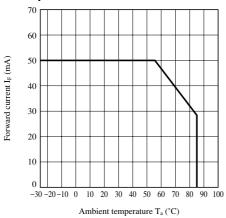
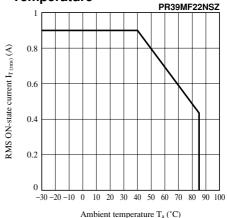


Fig.2 RMS ON-state Current vs. Ambient Temperature



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 - --- Office automation equipment
 - --- Telecommunication equipment [terminal]
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