

Description

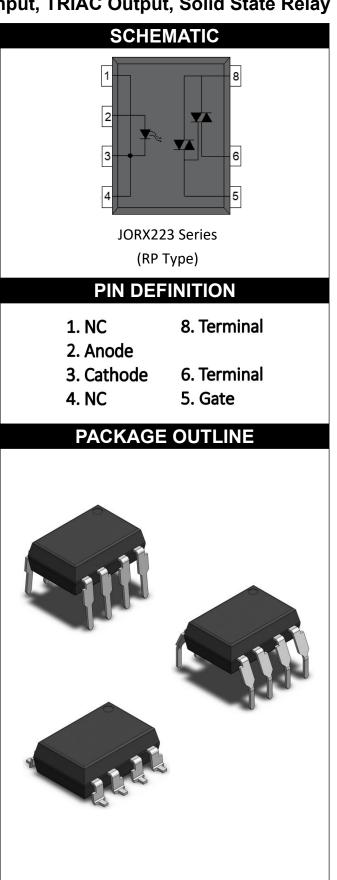
The JORX223 series combine an AlGaAs infrared emitting diode as the emitter which is optically coupled to a monolithic silicon random-phase photo triac to drive a power triac in a plastic DIP8 package with different lead forming options.

Features

- High isolation 5000 VRMS
- DC input with triac output
- Operating temperature range 40 °C to • 85 °C
- **RoHS & REACH Compliance**
- MSL class 1
- **Regulatory Approvals**
 - UL
 - VDE
 - CQC

Applications

- Solenoid/valve controls
- Lighting controls •
- Motor controls
- **Temperature controls** .
- Static AC power switches •
- Solid state relays
- Interfacing microprocessors to 115 to 240VAC peripherals



AB	SOLUTE MAXIMU	M RATINGS					
PARAMETE	SYMBOL	VALUE	UNIT	NOTE			
	INPUT						
Forward Curr	IF	60	mA				
Peak Forward C	I _{FP}	1	A	1			
Reverse Volt	VR	6	V				
Junction Tempe	Tj	125	°C				
Input Power Diss	Pi	100	mW				
OUTPUT							
Off-state Output Term	inal Voltage	V _{DRM}	600	V			
	JOR0223		0.3	A			
On-state RMS Current	JOR1223	IT	0.6				
On-state RMS Current	JOR2223	IT _(RMS)	0.9				
	JOR3223		1.2				
	JOR0223		3	A			
Non-repetitive Surge Current PW=100µs, 120pps	JOR1223	I	6				
	JOR2223	I _{TSM}	9				
	JOR3223		12				
Junction Tempe	Tj	125	°C				
	COMMON						
Total Power Diss	Ptot	400	mW				
Isolation Voltage		Viso	5000	Vrms	1		
Operating Temperature		Topr	-40~85	°C			
Storage Temperature		Tstg	-40~125	°C			
Soldering Temp	Tsol	260	°C	2			

Note 1. 100µs pulse, 100Hz frequency

Note 2. AC For 1 Minute, R.H. = 40 ~ 60%

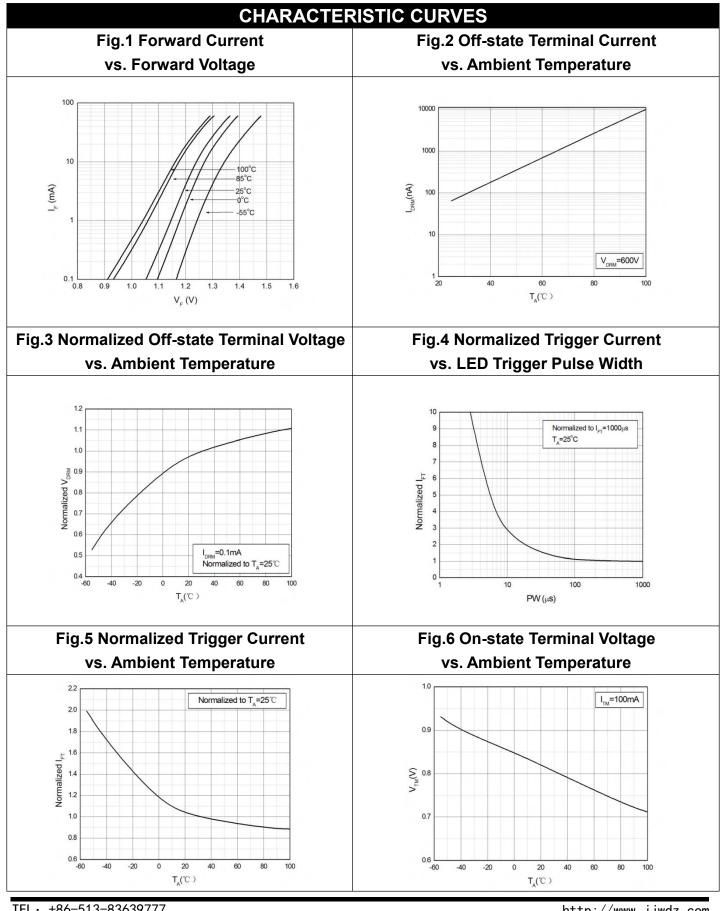
Note 3. For 10 seconds

DIP7, DC Input, TRIAC Output, Solid State Relay

ELECTRICAL OPTICAL CHARACTERISTICS at Ta=25°C								
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION	NOTE	
INPUT								
Forward Voltage	VF	-	1.24	1.4	V	I _F =10mA		
Reverse Current	I _R	-	-	10	μA	V _R =6V		
Input Capacitance	Cin	-	30	-	pF	V=0, f=1kHz		
OUTPUT								
Peak Off-state Current, Either Direction	I _{DRM}	-	-	100	μA	V _{DRM} =600V I _F =0	3	
Peak On-state Current, Either Direction	V _{TM}	-	0.8	2.5	V	I _{TM} = I _{TM} Rated		
Critical Rate of Rise of Off-state Voltage Breakdown Voltage	dV/dt	1000	-	-	V	V _{PEAK} =600V		
TRANSFER CHARACTERISTICS								
LED Trigger Current	IFT	-	-	10	mA	Terminal Voltage = 6V RL=100		
Holding Current Saturation Voltage	Ін	-	-	25	mA	-		
Isolation Resistance	Riso	10^12	10^14	-	Ω	DC500V, 40 ~ 60% R.H.		
Floating Capacitance	CIO	-	0.25	1	pF	V=0, f=1MHz		
Response Time (Rise)	ton	-	30	100	μs	V _D =6V RL=100 Ω I _F =10mA		

Note3. Test voltage must be applied within dV/dt rating.

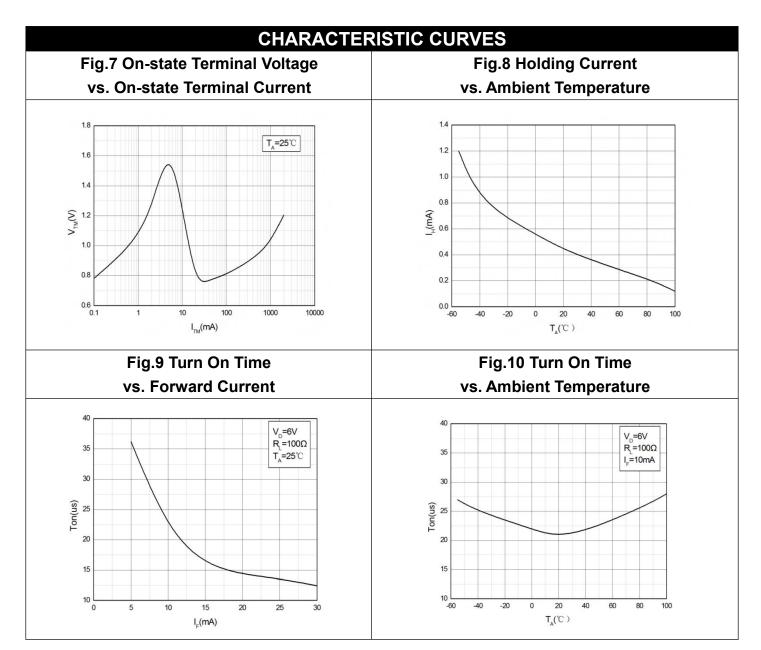
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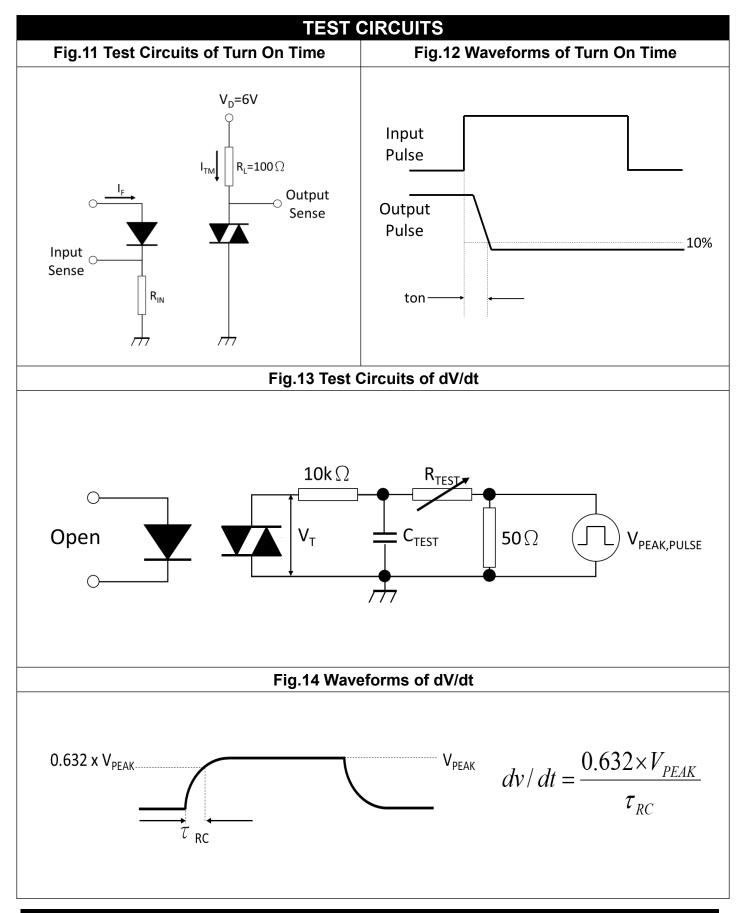
TEL: +86-513-83639777

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http://www.jjwdz.com



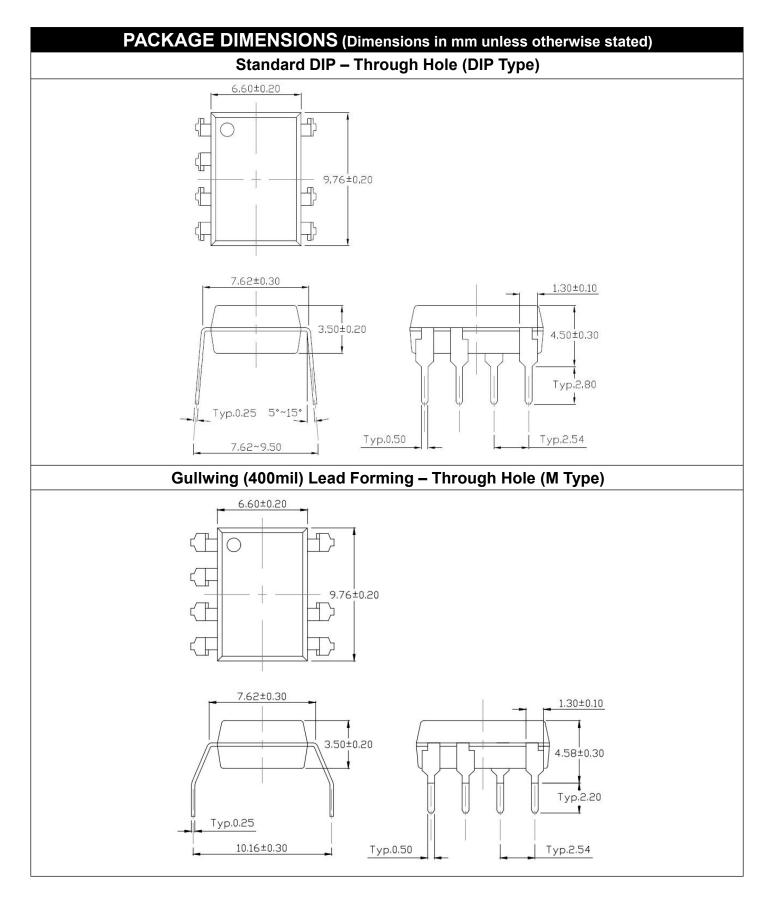
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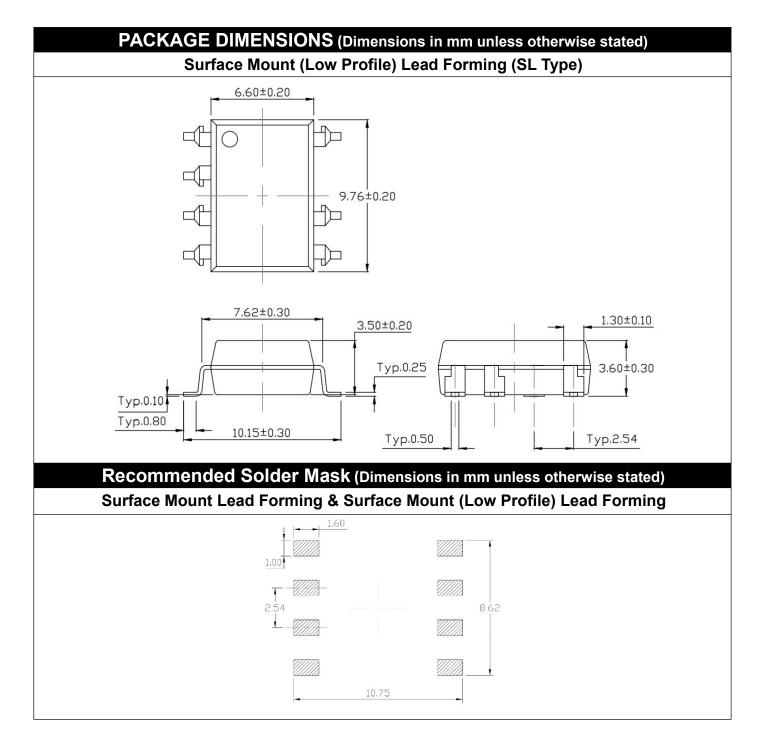


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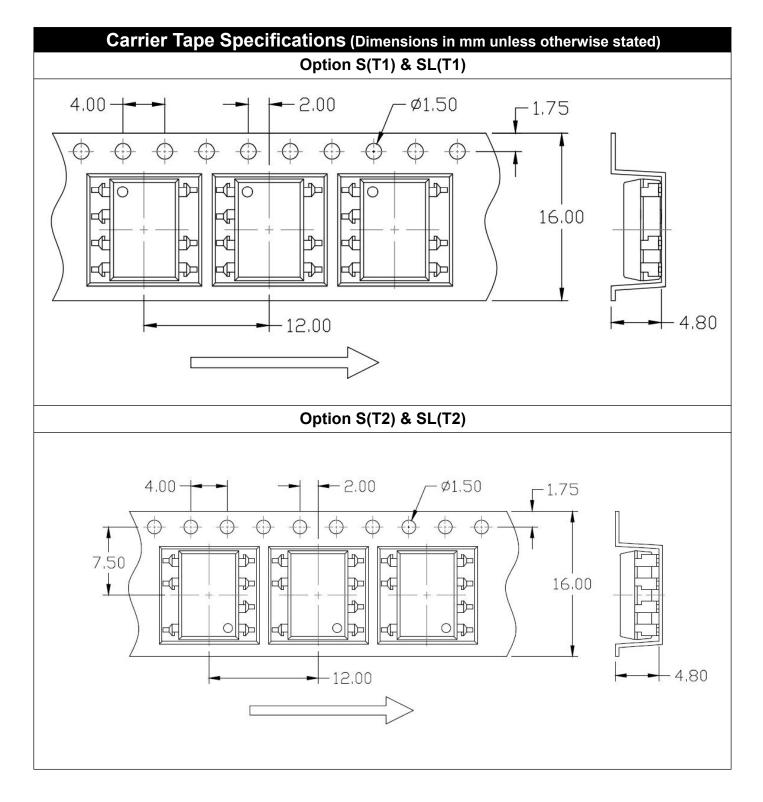
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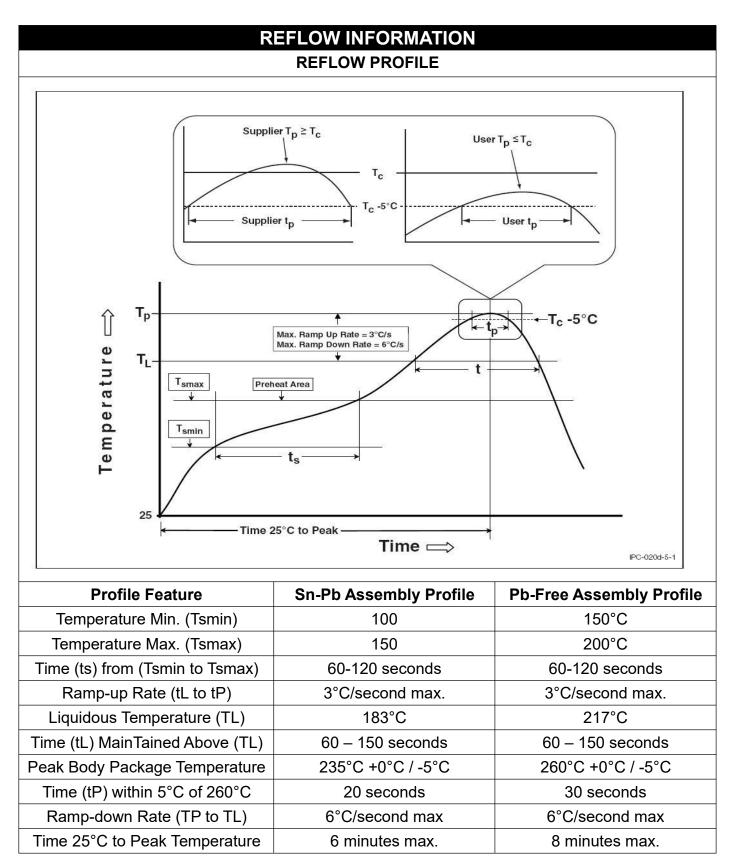
DIP7, DC Input, TRIAC Output, Solid State Relay



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JieJie Microelectronics Co., Ltd. DIP7, DC Input, TRIAC Output, Solid State Relay

ORDERING AND MARKING INFORMATION						
		OR 223	JOR : Company Abbr. X223 : Part Number & Rank V : VDE Option Y : Fiscal Year A : Manufacturing Code WW : Work Week			
ORI	DERING INFORMAT	ION	LABEL INFORMATION			
JORX223(Y)(Z)-GV JOR – Company Abbr. X223 – Part Number & Rank (X=0/1/2/3) Y – Lead Form Option (M/SL/None) Z – Tape and Reel Option (T1/T2) G – Material Option (G: Green, None: Non-Green) V – VDE Option (V or None)		▶ 捷捷微电(深圳)有限公司 JEJE MICROELECTRONICS (Shenzhen) Co Ltd Part No.: XXXXXXXXX Bin Code: X ↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓				
Oution	0					
Option	Quantity	Quantity – Inner box		Quantity – Outer box		
None M	40 Units/Tube 40 Units/Tube	30 Tubes/Inner box		10 Inner box/Outer box = 12k Units		
SL(T1)	1000 Units/Reel	30 Tubes/Inner box		10 Inner box/Outer box = 12k Units 5 Inner box/Outer box = 15k Units		
SL(T1) SL(T2)	1000 Units/Reel	3 Reels/Inner box		5 Inner box/Outer box = 15k Units 5 Inner box/Outer box = 15k Units		
		3 Reels/Inner box				



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- Please contact JIEJIE sales agent for special application request.
- Immerge unit's body in solder paste is not recommended.
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 over time. All operating parameters, including typical parameters, must be validated in each
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 otherwise modify JIEJIE's terms and conditions of purchase, including but not limited to the warranty
 expressed therein.
- Discoloration might be occurred on the package surface after soldering, reflow or long-time use. It neither impacts the performance nor reliability.