

EPR MOS RELAY (4PIN) Low Cost Version

1. FEATURES

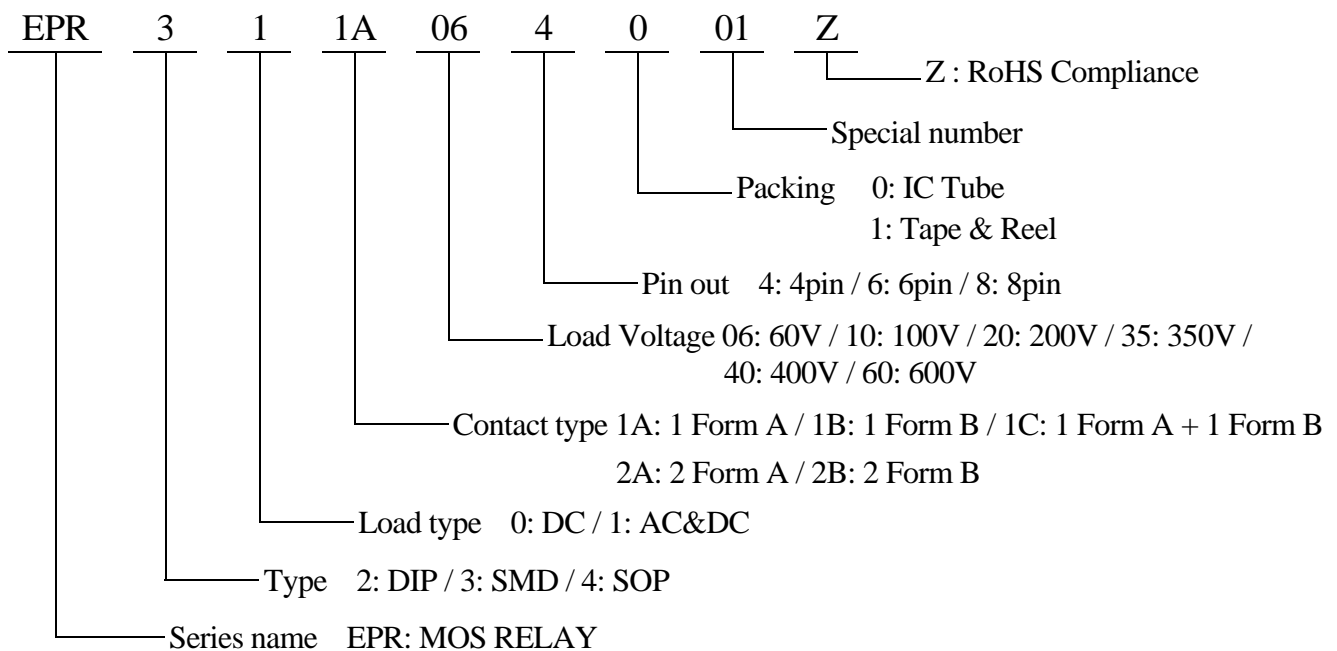
- 1.1 No EMI/RFI Generation
- 1.2 High reliability
- 1.3 No moving parts
- 1.4 Low drive power requirement (TTL/CMOS Compatible)
- 1.5 Low On-state Resistance
- 1.6 3750V isolation input/output (1500V isolation for SO-package)
- 1.7 Arc-free with no snubbing circuits
- 1.8 Machine insertable or wave solderable



2. APPLICATION

- 2.1 Telecommunications
- 2.2 Instrumentation
- 2.3 Medical equipment
- 2.4 Security
- 2.5 Industrial control

3. PART NUMBERING SYSTEM



4. SPECIFICATION

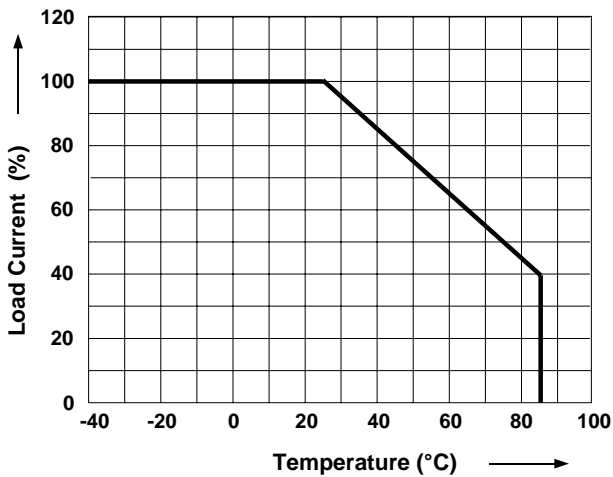
Part Number (4PIN)		Marking	PACKING	Contact Form
EPR211A064001	DIP / 60VAC&DC	41A06T1	97 pcs/Tube	1A
EPR311A064001	SMD / 60VAC&DC	41A06M1	97 pcs/Tube	
EPR311A064101	SMD / 60VAC&DC	41A06M1	1000 pcs/Tape & reel	
EPR411A064001	SOP / 60VAC&DC	41A06S1	97 pcs/Tube	
EPR411A064101	SOP / 60VAC&DC	41A06S1	2000 pcs/Tape & reel	

Electrical characteristics (Ambient temperature: 25°C)

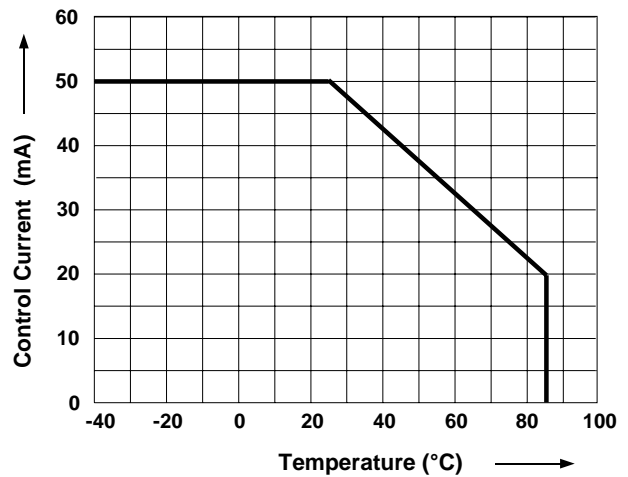
ITEM		Symbol	MIN.	TYP	MAX	UNIT	NOTE	
Input	Forward voltage	V _F	1.0		1.4	V	I _F =10mA	
	Reverse voltage	V _R			5	V	I _R =10μA	
	Control current	I _{Fopr}	5		50	mA		
Output	Load voltage (AC peak or DC)	V _L	60			V		
	Continuous Rated Load Current	SOP	I _L			-	mA	I _F =10mA
		DIP/SMD				120		
	Peak current	SOP	I _{Lpeak}			-	mA	10ms
		DIP/SMD				250		
	On-state resistance	R _{ON}		7	16	Ohm	I _F =10mA, I _L =rating	
	Off-state Leakage current	I _{LK}			1	μA	I _F =0mA, V _L =rating	
	Turn-On Time	T _{ON}		0.05	1.5	ms	I _F =10mA, V _L =rating, I _L =rating	
Turn-Off Time	T _{OFF}		0.05	1	ms			
Output Capacitance	C _{OUT}			25	pF	f=1MHz		
Input/ Output	I/O Capacitance	C _{I/O}		1		pF	f=1MHz	
	I/O Isolation voltage	SOP	V _{I/O}				VAC	R.H. ≤ 60% 1min
		DIP/SMD				3750		
I/O Isolation resistance	R _{I/O}		5			GΩ	DC=500V delay 2sec	
Temperature limits	Operating	T _{OP}	-40°C to +85°C (-40°F to +185°F)					
	Storage	T _{STG}	-40°C to +100°C (-40°F to +212°F)					

LIMIT CONDITIONS

Load Current vs. Temperature



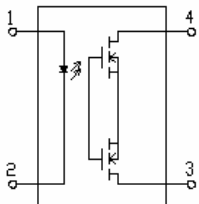
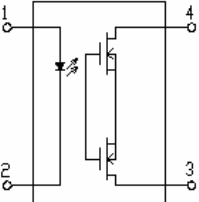
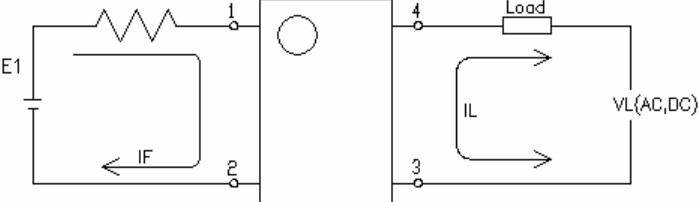
Control Current vs. Temperature



RECOMMENDED OPERATING CONDITIONS

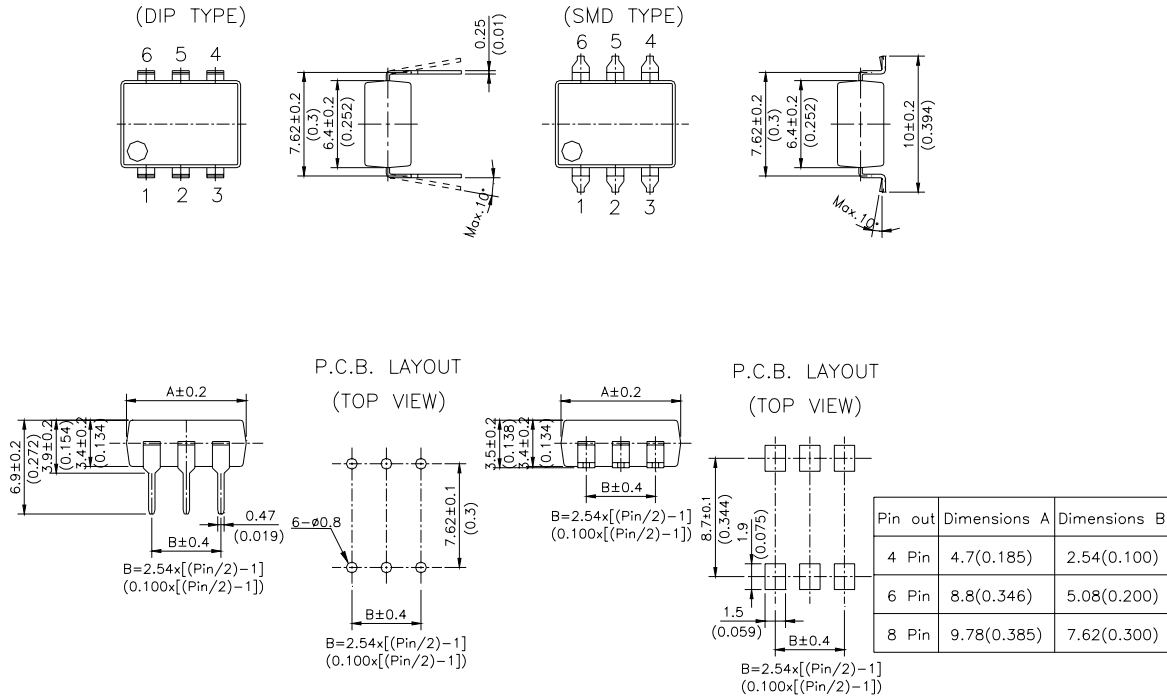
CHARACTERISTIC	SYMBOL	MIN.	TYP.	MAX.	UNIT
Forward Current	I _F	5	10	25	mA
Operating Temperature	T _{opr}	-20		65	°C

7. CIRCUIT DIAGRAM & APPLICATION

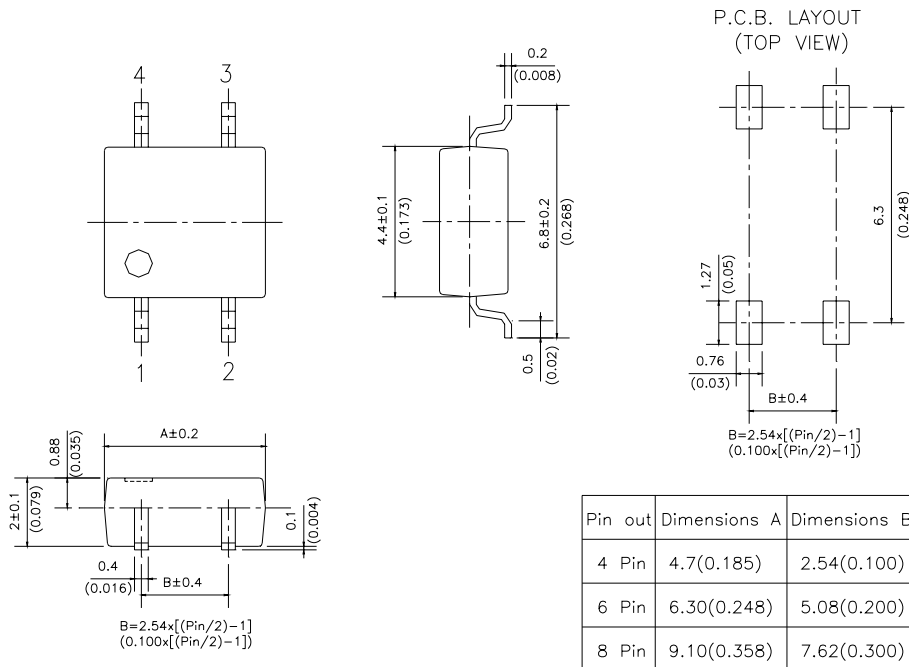
Circuit diagram (4 PIN)	Load type	Application
<p>EPR 4P 1A TYPE (AC/DC)</p>  <p>EPR 4P 1B TYPE (AC/DC)</p> 	<p>AC&DC</p>	

8. DRAWINGS

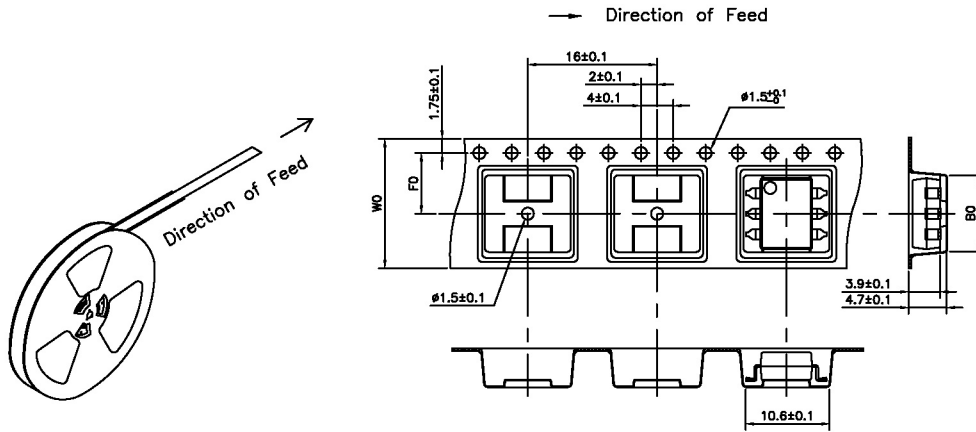
EPR/EPC/EPT/EPV-DIP/SMD SERIES DIMENSIONS Unit:mm(inch)



EPR/EPC/EPT/EPV-SOP SERIES DIMENSIONS Unit:mm(inch)

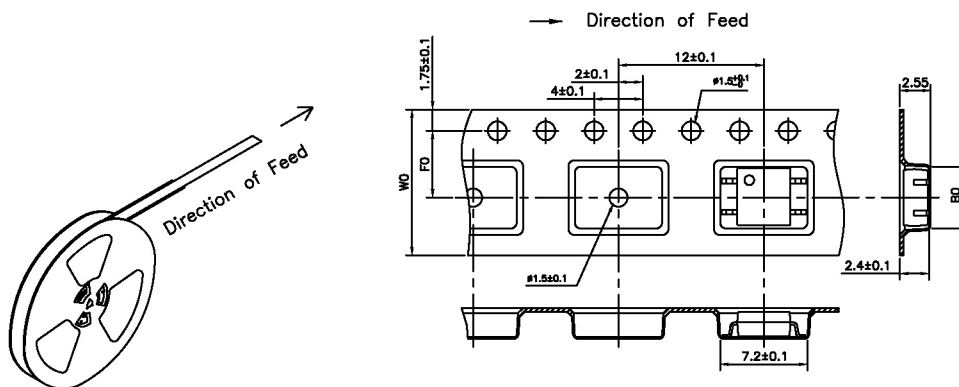


EPR-SMD REEL (Dimensions in mm)



TYPE	B0±0.1	FO±0.1	W0±0.3	15°REEL/PCS
4P	5.3	7.5	16	1000
6P	9.4	7.5	16	1000
8P	10.3	11.5	24	1000

EPR-SOP REEL (Dimensions in mm)



TYPE	B0±0.1	FO±0.1	W0±0.3	13°REEL/PCS
4P	5.1	5.5	12	2000
6P	6.7	7.5	16	2000
8P	9.6	7.5	16	2000