ELECTRICAL CHARACTERISTICS (Ambient Temperature = 25°C unless otherwise specified)

INPUT

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COMPONENTS

Parameter	Symbol	Test Condition	Min	Тур.	Max	Unit
Forward Voltage	\mathbf{V}_{F}	$I_F = 20 m A$		1.2	1.4	V
Reverse Voltage	V _R	$I_R = 10 \mu A$	6.0			V
Reverse Leakage	I _R	$V_R = 4V$			10	μΑ
Terminal Capacitance	C _t	V = 0V, f = 1KHz		30	250	pF

OUTPUT

Parameter	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector—Emitter Breakdown Voltage	BV _{CEO}	$I_C = 1 \text{ mA}, I_F = 0 \text{ mA}$	80			V
Emitter—Collector Breakdown Voltage	BV _{ECO}	$I_{\rm E} = 100 \mu A, I_{\rm F} = 0 {\rm m} A$	6			V
Collector-Emitter Dark Current	I _{CEO}	$V_{CE} = 20V, I_F = 0mA$			100	nA

COUPLED

Parameter	Symbol	Test Condition	Min	Тур.	Max	Unit
Current transfer ratio	CTR	$I_F = 5mA$, $V_{CE} = 5V$	80		600	%
		Optional CTR Grades GR L (PS2501-1 only)	100 200		300 400	
Collector—Emitter Saturation Voltage	V _{CE(sat)}	$I_{\rm F} = 10 {\rm mA}, I_{\rm C} = 2 {\rm mA}$			0.3	V
Input to Output Isolation Voltage	V _{ISO}	AC 1 minute, RH = 40 to 60% Note 1	5300			V _{RMS}
Input to Output Isolation Resistance	R _{ISO}	$V_{IO} = 500V$ Note 1	5x10 ¹⁰			Ω
Output Rise Time	t _r	$V_{CE} = 2V$, Ic = 2mA, $R_L = 100\Omega$		4	18	μs
Output Fall Time	t _f	$V_{CE} = 2V$, Ic = 2mA, $R_L = 100\Omega$		3	18	μs

Note 1 : Measure with input leads shorted together and output leads shorted together.



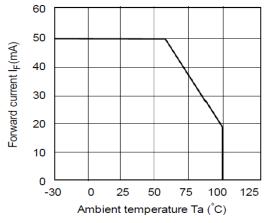


Fig 1 Forward Current vs T_A

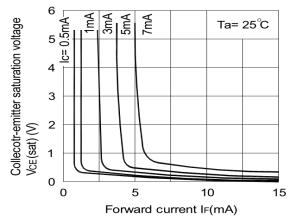
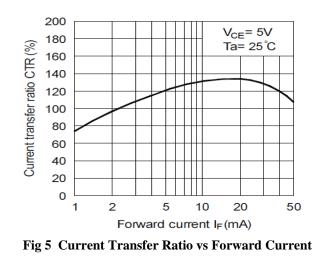


Fig 3 Collector-emitter Saturation Voltage vs Forward Current



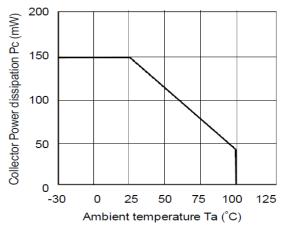


Fig 2 Collector Power Dissipation vs T_A

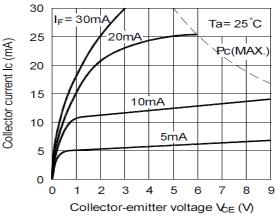


Fig 4 Collector Current vs Collector-emitter Voltage

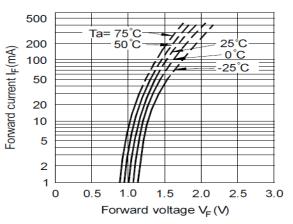
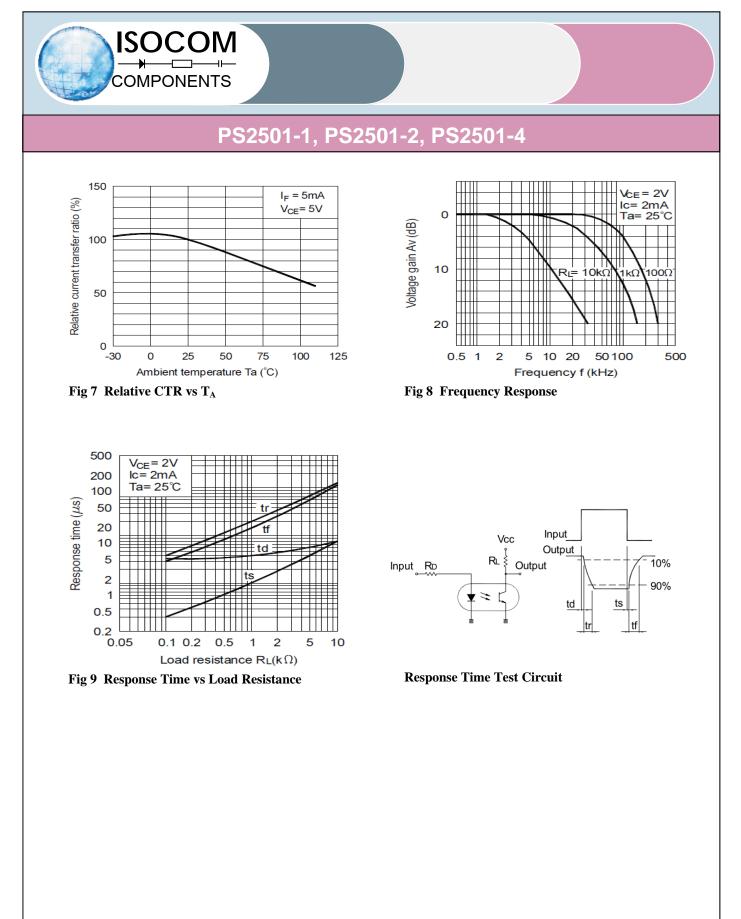


Fig 6 Forward Current vs Forward Voltage



ORDER INFORMATION

	PS2501-1 (UL Approval)				
After PN	PN	Description	Packing quantity		
None	PS2501-1, PS2501-1GR, PS2501-1L	Standard DIP4	100 pcs per tube		
G	PS2501-1G, PS2501-1GRG, PS2501-1LG	10mm Lead Spacing	100 pcs per tube		
SM	PS2501-1SM, PS2501-1GRSM, PS2501-1LSM	Surface Mount	100 pcs per tube		
SMT&R	PS2501-1SMT&R, PS2501-1GRSMT&R, PS2501-1LSMT&R	Surface Mount Tape & Reel	1000 pcs per reel		

	PS2501-2 (UL Approval)				
After PN	PN	Description	Packing quantity		
None	PS2501-2, PS2501-2GR	Standard DIP8	50 pcs per tube		
G	PS2501-2G, PS2501-2GRG	10mm Lead Spacing	50 pcs per tube		
SM	PS2501-2SM, PS2501-2GRSM	Surface Mount	50 pcs per tube		
SMT&R	PS2501-2SMT&R, PS2501-2GRSMT&R,	Surface Mount Tape & Reel	1000 pcs per reel		

	PS2501-4 (UL Approval)				
After PN	PN	Description	Packing quantity		
None	PS2501-4, PS2501-4GR	Standard DIP16	25 pcs per tube		
G	PS2501-4G, PS2501-4GRG	10mm Lead Spacing	25 pcs per tube		
SM	PS2501-4SM, PS2501-4GRSM	Surface Mount	25 pcs per tube		

CTR grade "L" available only for PS2501-1.

ORDER INFORMATION

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COMPONENTS

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	PS2501-1X (UL and VDE Approvals)				
After PN	PN	Description	Packing quantity		
None	PS2501-1X, PS2501-1XGR, PS2501-1XL	Standard DIP4	100 pcs per tube		
G	PS2501-1XG, PS2501-1XGRG, PS2501-1XLG	10mm Lead Spacing	100 pcs per tube		
SM	PS2501-1XSM, PS2501-1XGRSM, PS2501-1XLSM	Surface Mount	100 pcs per tube		
SMT&R	PS2501-1XSMT&R, PS2501-1XGRSMT&R, PS2501-1XLSMT&R	Surface Mount Tape & Reel	1000 pcs per reel		

PS2501-2X (UL and VDE Approvals)				
After PN	PN	Description	Packing quantity	
None	PS2501-2X, PS2501-2XGR	Standard DIP8	50 pcs per tube	
G	PS2501-2XG, PS2501-2XGRG	10mm Lead Spacing	50 pcs per tube	
SM	PS2501-2XSM, PS2501-2XGRSM,	Surface Mount	50 pcs per tube	
SMT&R	PS2501-2XSMT&R, PS2501-2XGRSMT&R	Surface Mount Tape & Reel	1000 pcs per reel	

	PS2501-4X (UL and VDE Approvals)				
After PN	PN	Description	Packing quantity		
None	PS2501-4X, PS2501-4XGR,	Standard DIP16	25 pcs per tube		
G	PS2501-4XG, PS2501-4XGRG	10mm Lead Spacing	25 pcs per tube		
SM	PS2501-4XSM, PS2501-4XGRSM	Surface Mount	25 pcs per tube		

CTR grade "L" available only for PS2501-1.

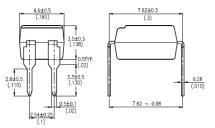


PACKAGE DIMENSIONS in mm (inch)

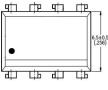
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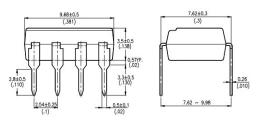
PS2501-1

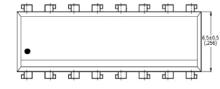


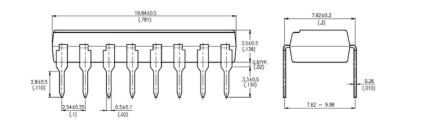


PS2501-2









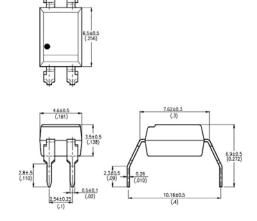
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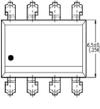
PACKAGE DIMENSIONS in mm (inch)

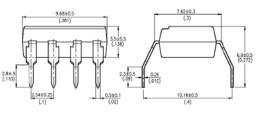
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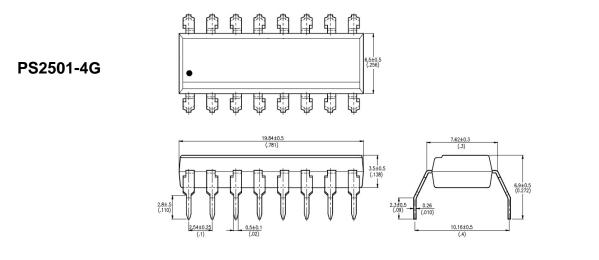
PS2501-1G



PS2501-2G







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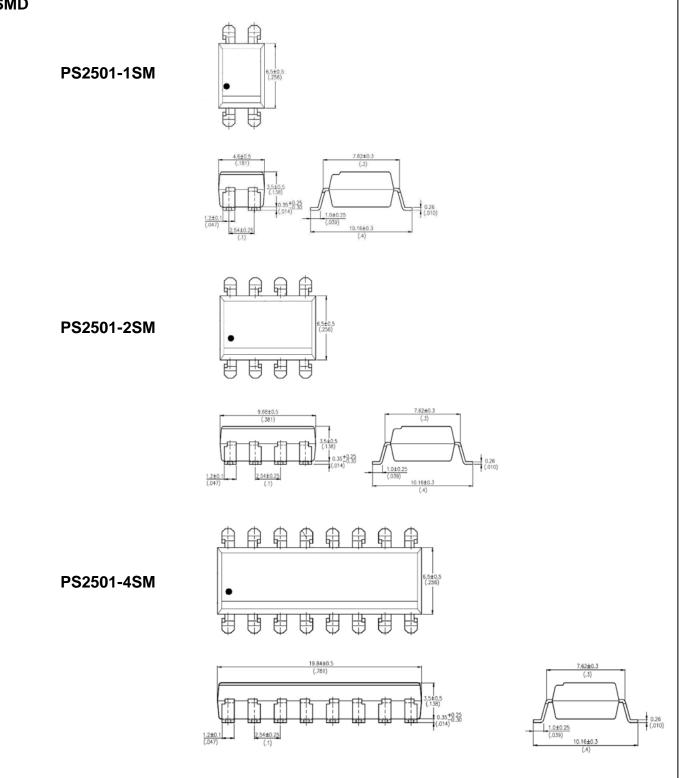
PACKAGE DIMENSIONS in mm (inch)

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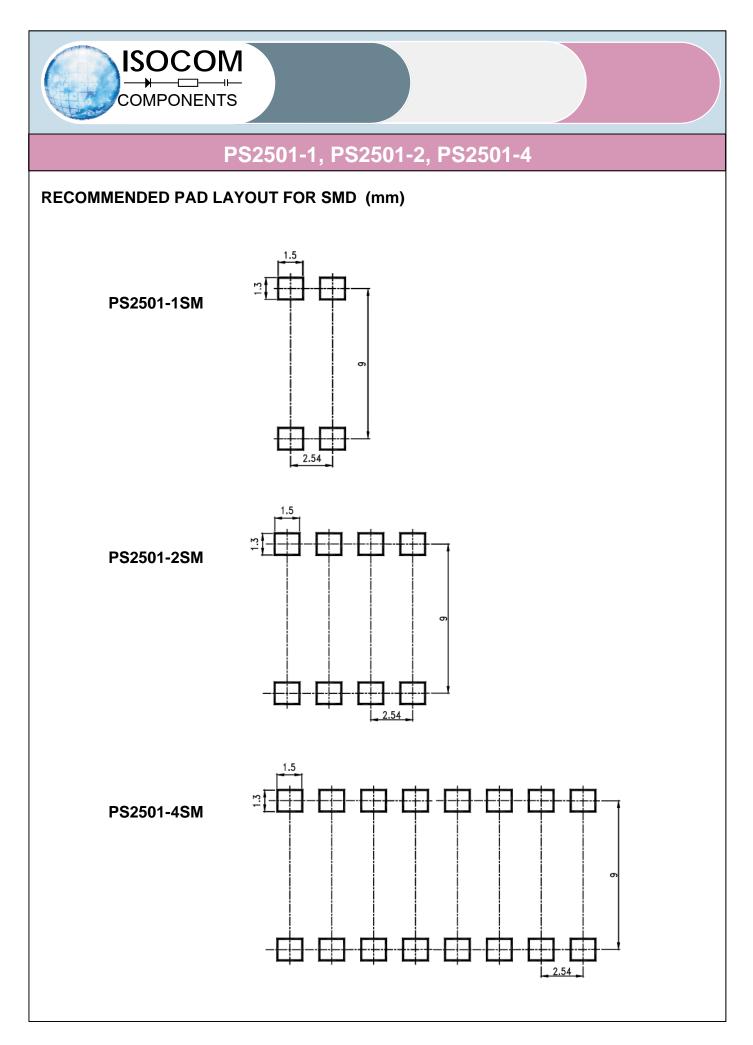
COMPONENTS

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SMD



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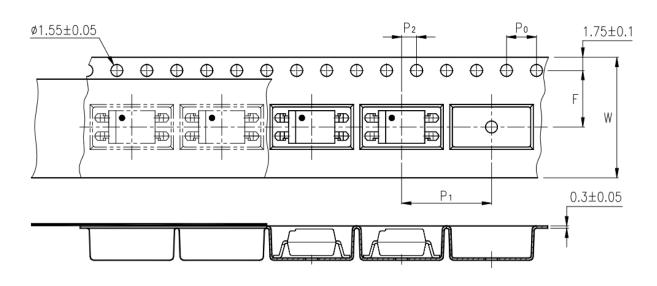


TAPE AND REEL PACKAGING

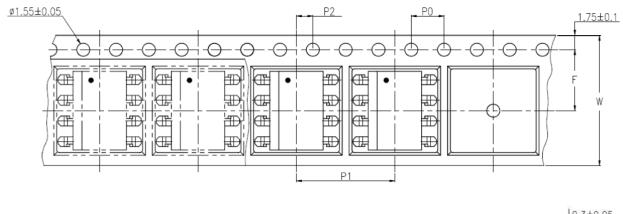
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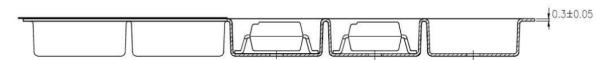
ISOCOM

COMPONENTS



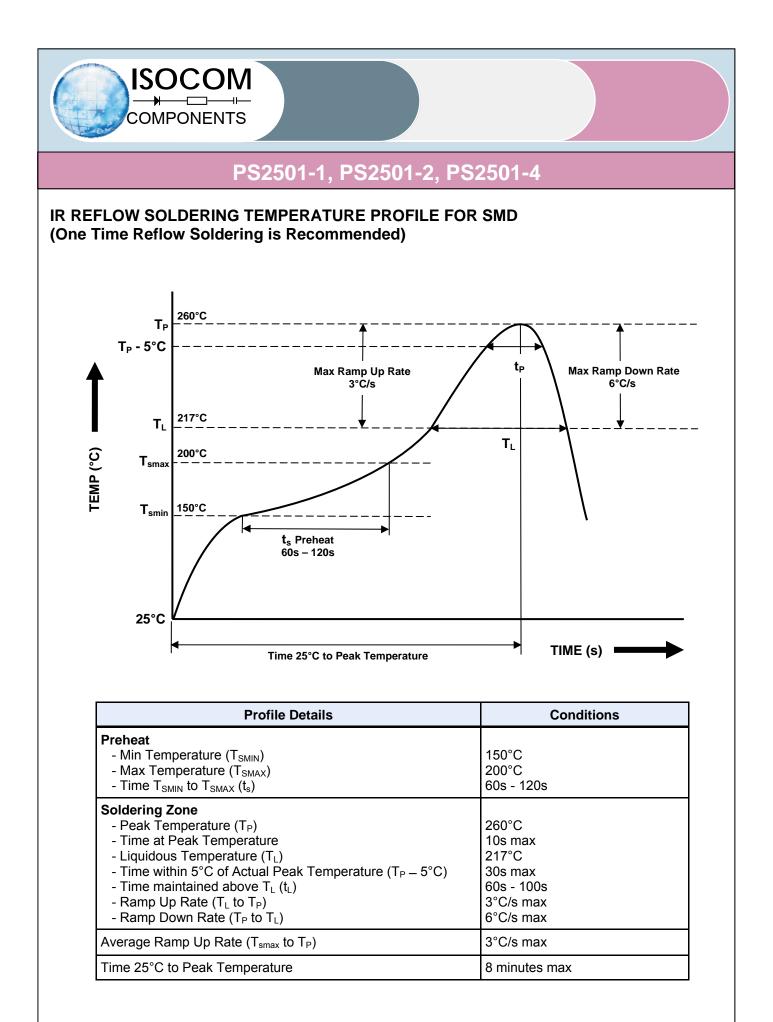
PS2501-1SMT&R





PS2501-2SMT&R

Description	Symbol	Dimensions in mm (inches)
Tape wide	W	16±0.3(.63)
Pitch of sprocket holes	Po	4 ± 0.1 (.15)
Distance of comportment	F	7.5 ± 0.1 (.295)
Distance of compartment	P2	2 ± 0.1 (.079)
Distance of compartment to compartment	P1	12±0.1(.472)



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- Do not immerse device body in solder paste.

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