



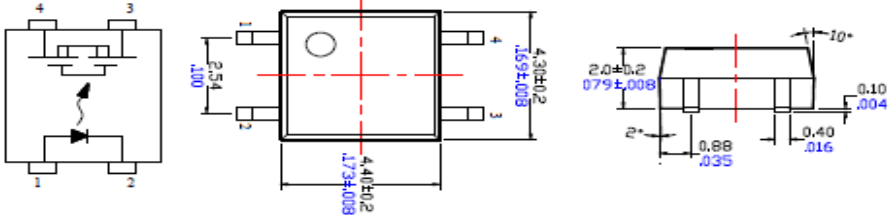




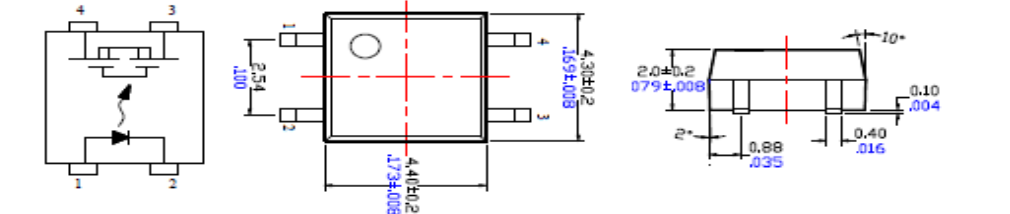


<b>BRAND</b>		<b>TPM</b>	<b>IC-HI</b>	<b>IC-HI</b>	<b>IC-HI</b>	
<b>Part / No.</b>		<b>S703S</b>	<b>HY311G2S</b>	<b>HY312S</b>	<b>HY312GS</b>	
Photographs						
回路接續圖 Figure.(TOP VIEW)						
Output Type		1 Form A	1 Form A	1 Form A	1 Form A	
Package		SOP 4	SOP 4	SOP 4	SOP 4	
Size ( L xW xH ) mm		4.4 x 4.7 x 2.0	4.4 x 4.3 x 2.0	4.4 x 4.3 x 2.0	4.4 x 4.3 x 2.0	
Break Down Voltage	$V_L$	30 V	40V	60V	60V	
Continuous Load Current	$I_L$	1100 mA	2500 mA	500 mA	800 mA	
Pulse Load Current	$I_{Peak}$	2000 mA	4.0 A	1.5 A	4.0 A	
Total power Dissipation	$P_T$	350 mW	500 mW	500 mW	450 mW	
Isolation Voltage	$V_{Iso}$	1,500 VAC	1,500 VAC	1,500 VAC	1,500 VAC	
<b>ELECTRICAL CHARACTERISTICS</b>						
Input	LED operate current	$I_{Fon}$	5.0 mA / min	5.0 mA / min	5.0 mA / min	5.0 mA / min
	LED turn off current	$I_{Foff}$	0.2 mA / max	0.35 mA / Typ.	0.35 mA / Typ.	0.35 mA / Typ.
	LED dropout voltage	$V_F$	1.4 V / max @ $I_F = 10$ mA	1.2 V / Typ. @ $I_F = 10$ mA	1.2 V / Typ. @ $I_F = 10$ mA	1.2 V / Typ. @ $I_F = 10$ mA
Output	On resistance	$R_{on}$	0.25 $\Omega$ / Typ.	0.06 $\Omega$ / Typ.	0.8 $\Omega$ / Typ.	0.3 $\Omega$ / Typ.
	Output Capacitance	$C_{out}$	150 pF / Typ.	190 pF / Typ.	28 pF / Typ.	115 pF / max.
	Off state leakage current	$I_{Leak}$	0.1 $\mu$ A / max.	0.1 $\mu$ A / max.	0.5 $\mu$ A / max.	0.5 $\mu$ A / max.
Transfer Characteristics	Turn-on Time	$T_{on}$	0.2 mS / Typ.	0.8 mS / Typ.	0.35 mS / Typ.	1.0 mS / Typ.
	Turn-off Time	$T_{off}$	0.05 mS / Typ.	0.02 mS / Typ.	0.2 mS / Typ.	0.6 mS / Typ.
	I/O capacitance	$C_{Iso}$	1 pF / Typ.	0.8 pF / Typ.	0.8 pF / Typ.	0.8 pF / Typ.
	Initial I/O isolation resistance	$R_{Iso}$	$10^{10}$ $\Omega$ / min	$10^{10}$ $\Omega$ / min	$10^{10}$ $\Omega$ / min	$10^{10}$ $\Omega$ / min





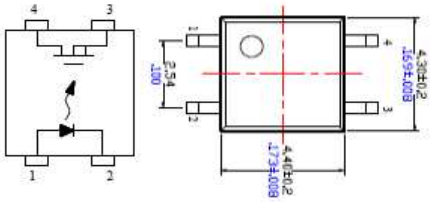
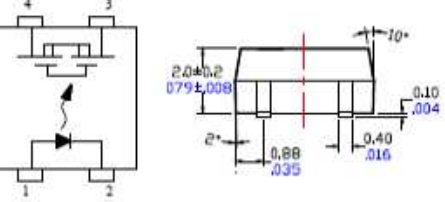
以上品牌及商標均為該當公司所有

BRAND		IC-HI	IC-HI	IC-HI	IC-HI	
Part / No.		HY312G2S	HY315G2S	HY317S	HY310S	
Photographs						
回路接續圖 Figure.(TOP VIEW)						
Output Type		1 Form A	1 Form A	1 Form A	1 Form A	
Package		SOP 4	SOP 4	SOP 4	SOP 4	
Size ( L xW xH ) mm		4.4 × 4.3 × 2.0	4.4 × 4.3 × 2.0	4.4 × 4.3 × 2.0	4.4 × 4.3 × 2.0	
Break Down Voltage	$V_L$	60V	100V	200V	350V	
Continuous Load Current	$I_L$	1300 mA	1250 mA	180 mA	120 mA	
Pulse Load Current	$I_{Peak}$	4.0 A	3.0 A	1.0 A	0.6 A	
Total power Dissipation	$P_T$	400 mW	400 mW	500 mW	350 mW	
Isolation Voltage	$V_{Iso}$	1,500 VAC	1,500 VAC	1,500 VAC	1,500 VAC	
ELECTRICAL CHARACTERISTICS						
Input	LED operate current	$I_{Fon}$	5.0 mA / min	5.0 mA / min	5.0 mA / min	5.0 mA / min
	LED turn off current	$I_{Foff}$	0.35 mA / Typ.	0.35 mA / Typ.	0.35 mA / Typ.	0.35 mA / Typ.
	LED dropout voltage	$V_F$	1.2 V / Typ. @ $I_F = 10$ mA	1.2 V / Typ. @ $I_F = 10$ mA	1.2 V / Typ. @ $I_F = 10$ mA	1.2 V / Typ. @ $I_F = 10$ mA
Output	On resistance	$R_{on}$	0.13 $\Omega$ / Typ.	0.13 $\Omega$ / Typ.	5 $\Omega$ / Typ.	17 $\Omega$ / Typ.
	Output Capacitance	$C_{out}$	115 pF / max.	115 pF / Typ.	115 pF / Typ.	115 pF / Typ.
	Off state leakage current	$I_{Leak}$	0.5 $\mu$ A / max.	0.5 $\mu$ A / max.	0.5 $\mu$ A / max.	0.5 $\mu$ A / max.
Transfer Characteristics	Turn-on Time	$T_{on}$	1.0 mS / Typ.	1.0 mS / Typ.	0.4 mS / Typ.	0.23 mS / Typ.
	Turn-off Time	$T_{off}$	0.6 mS / Typ.	0.06 mS / Typ.	0.05 mS / Typ.	0.05 mS / Typ.
	I/O capacitance	$C_{Iso}$	0.8 pF / Typ.	0.8 pF / Typ.	0.8 pF / Typ.	0.8 pF / Typ.
	Initial I/O isolation resistance	$R_{Iso}$	$10^{10}$ $\Omega$ / min	$10^{10}$ $\Omega$ / min	$10^{10}$ $\Omega$ / min	$10^{10}$ $\Omega$ / min





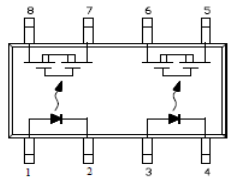
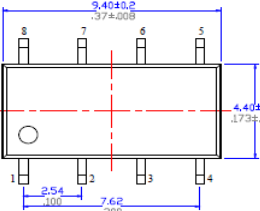
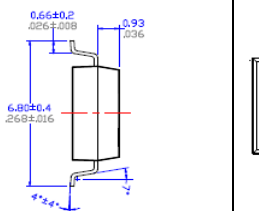
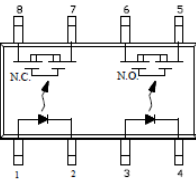
以上品牌及商標均為該當公司所有

<u>BRAND</u>		<u>IC-HI</u>	<u>IC-HI</u>	<u>IC-HI</u>	<u>IC-HI</u>	
<u>Part / No.</u>		<b>HY310GS</b>	<b>HY314S</b>	<b>HY314GS</b>	<b>HY316S</b>	
Photographs						
回路接續圖 Figure.(TOP VIEW)						
Output Type		1 Form A	1 Form A	1 Form A	1 Form A	
Package		SOP 4	SOP 4	SOP 4	SOP 4	
Size ( L xW xH ) mm		4.4 × 4.3 × 2.0	4.4 × 4.3 × 2.0	4.4 × 4.3 × 2.0	4.4 × 4.3 × 2.0	
Break Down Voltage	$V_L$	350V	400V	400V	600V	
Continuous Load Current	$I_L$	250 mA	100 mA	250 mA	80 mA	
Pulse Load Current	$I_{Peak}$	0.7 A	0.6 A	0.8 A	1.0 A	
Total power Dissipation	$P_T$	200 mW	350 mW	210 mW	500 mW	
Isolation Voltage	$V_{Iso}$	1,500 VAC	1,500 VAC	1,500 VAC	1,500 VAC	
<b>ELECTRICAL CHARACTERISTICS</b>						
Input	LED operate current	$I_{Fon}$	5.0 mA / min	5.0 mA / min	5.0 mA / min	5.0 mA / min
	LED turn off current	$I_{Foff}$	0.35 mA / Typ.	0.35 mA / Typ.	0.35 mA / Typ.	0.35 mA / Typ.
	LED dropout voltage	$V_F$	1.2 V / Typ. @ $I_F = 10$ mA	1.2 V / Typ. @ $I_F = 10$ mA	1.2 V / Typ. @ $I_F = 10$ mA	1.2 V / Typ. @ $I_F = 10$ mA
Output	On resistance	$R_{on}$	12 $\Omega$ / Typ.	20 $\Omega$ / Typ.	8 $\Omega$ / Typ.	35 $\Omega$ / Typ.
	Output Capacitance	$C_{out}$	330 pF / Typ.	115 pF / Typ.	20 pF / Typ.	115 pF / Typ.
	Off state leakage current	$I_{Leak}$	0.5 $\mu$ A / max.	0.5 $\mu$ A / max.	0.5 $\mu$ A / max.	0.5 $\mu$ A / max.
Transfer Characteristics	Turn-on Time	$T_{on}$	0.6 mS / Typ.	0.23 mS / Typ.	0.6 mS / Typ.	0.3 mS / Typ.
	Turn-off Time	$T_{off}$	0.03 mS / Typ.	0.03 mS / Typ.	0.03 mS / Typ.	0.02 mS / Typ.
	I/O capacitance	$C_{Iso}$	0.8 pF / Typ.	0.8 pF / Typ.	0.8 pF / Typ.	0.8 pF / Typ.
	Initial I/O isolation resistance	$R_{Iso}$	$10^{10}$ $\Omega$ / min	$10^{10}$ $\Omega$ / min	$10^{10}$ $\Omega$ / min	$10^{10}$ $\Omega$ / min

以上品牌及商標均為該當公司所有

<u>BRAND</u>		<u>IC-HI</u>	<u>IC-HI</u>	<u>IC-HI</u>	<u>IC-HI</u>	
<u>Part / No.</u>		<u>HY311DGS</u>	<u>HY311DG2S</u>	<u>HY322RS</u>	<u>HY325NS</u>	
Photographs						
回路接續圖 Figure.(TOP VIEW)						
Output Type		1 Form A	1 Form A	1 Form A	1 Form A	
Package		SOP 4	SOP 4	SOP 4	SOP 4	
Size ( L xW xH ) mm		4.4 × 4.3 × 2.0	4.4 × 4.3 × 2.0	4.4 × 4.3 × 2.0	4.4 × 4.3 × 2.0	
Break Down Voltage	$V_L$	20V (DC only)	40V (DC only)	60V	80V	
Continuous Load Current	$I_L$	5000 mA	3500 mA	400 mA	30 mA	
Pulse Load Current	$I_{Peak}$	35.0 A	5.0 A	1.0 A	0.1 A	
Total power Dissipation	$P_T$	2 W	600 mW	350 mW	300 mW	
Isolation Voltage	$V_{Iso}$	1,500 VAC	1,500 VAC	1,500 VAC	1,500 VAC	
ELECTRICAL CHARACTERISTICS						
Input	LED operate current	$I_{Fon}$	5.0 mA / min	5.0 mA / min	5.0 mA / min	5.0 mA / min
	LED turn off current	$I_{Foff}$	0.35 mA / Typ.	-	0.35 mA / Typ.	0.35 mA / Typ.
	LED dropout voltage	$V_F$	1.2 V / Typ. @ $I_F = 10$ mA	1.2 V / Typ. @ $I_F = 10$ mA	1.2 V / Typ. @ $I_F = 10$ mA	1.2 V / Typ. @ $I_F = 10$ mA
Output	On resistance	$R_{on}$	0.2 $\Omega$ / Typ.	0.05 $\Omega$ / Typ.	0.8 $\Omega$ / Typ.	20 $\Omega$ / Typ.
	Output Capacitance	$C_{out}$	500 pF / Typ.	240 pF / Typ.	28 pF / Typ.	6 pF / Typ.
	Off state leakage current	$I_{Leak}$	0.5 $\mu$ A / max.	0.1 $\mu$ A / max.	10 nA / max.	10 nA / max.
Transfer Characteristics	Turn-on Time	$T_{on}$	0.5 mS / Typ.	0.4 mS / Typ.	0.25 mS / Typ.	0.03 mS / Typ.
	Turn-off Time	$T_{off}$	0.03 mS / Typ.	0.03 mS / Typ.	0.02 mS / Typ.	0.05 mS / Typ.
	I/O capacitance	$C_{Iso}$	0.8 pF / Typ.	0.8 pF / Typ.	0.8 pF / Typ.	0.8 pF / Typ.
	Initial I/O isolation resistance	$R_{Iso}$	$10^9 \Omega$ / min	$10^{10} \Omega$ / min	$10^{10} \Omega$ / min	$10^{10} \Omega$ / min

以上品牌及商標均為該當公司所有

BRAND		IC-HI	IC-HI	IC-HI	IC-HI	
Part / No.		HW311G2S	HW312G2S	HW315G2S	HW714GS	
Photographs						
回路接續圖 Figure.(TOP VIEW)						
Output Type		2 Form A	2 Form A	2 Form A	1 Form A + 1 Form B	
Package		SOP 8	SOP 8	SOP 8	SOP 8	
Size ( L xW xH ) mm		4.4 × 9.4 × 2.0	4.4 × 9.4 × 2.0	4.4 × 9.4 × 2.0	4.4 × 9.4 × 2.0	
Break Down Voltage	$V_L$	40V	60V	100V	400V	
Continuous Load Current	$I_L$	2500 mA	1100 mA	1100 mA	120 mA	
Pulse Load Current	$I_{Peak}$	4.0 A	4.0 A	3.0 A	0.6 A	
Total power Dissipation	$P_T$	500 mW	450 mW	400 mW	500 mW	
Isolation Voltage	$V_{Iso}$	1,500 VAC	1,500 VAC	1,500 VAC	1,500 VAC	
ELECTRICAL CHARACTERISTICS						
Input	LED operate current	$I_{Fon}$	5.0 mA / min	5.0 mA / min	5.0 mA / min	5.0 mA / min
	LED turn off current	$I_{Foff}$	0.35 mA / Typ.	0.35 mA / Typ.	0.35 mA / Typ.	0.35 mA / Typ.
	LED dropout voltage	$V_F$	1.2 V / Typ. @ $I_F = 10$ mA	1.2 V / Typ. @ $I_F = 10$ mA	1.2 V / Typ. @ $I_F = 10$ mA	1.2 V / Typ. @ $I_F = 10$ mA
Output	On resistance	$R_{on}$	0.06 $\Omega$ / Typ.	0.13 $\Omega$ / Typ.	0.13 $\Omega$ / Typ.	20 (NO) $\Omega$ / Typ. 20 (NC) $\Omega$ / Typ.
	Output Capacitance	$C_{out}$	190 pF / Typ.	115 pF / Typ.	115 pF / Typ.	165 pF / Typ.
	Off state leakage current	$I_{Leak}$	0.1 $\mu$ A / max.	1.0 $\mu$ A / max.	1.0 $\mu$ A / max.	1(NO) $\mu$ A / max. 1(NC) $\mu$ A / max.
Transfer Characteristics	Turn-on Time	$T_{on}$	0.8 mS / Typ.	1.0 mS / Typ.	1.0 mS / Typ.	0.23 (N.O.) mS / Typ. 0.5 (N.C.) mS / Typ.
	Turn-off Time	$T_{off}$	0.02 mS / Typ.	0.6 mS / Typ.	0.06 mS / Typ.	0.03 (N.O.) mS / Typ. 0.5 (N.C.) mS / Typ.
	I/O capacitance	$C_{Iso}$	0.8 pF / Typ.	0.8 pF / Typ.	0.8 pF / Typ.	0.8 pF / Typ.
	Initial I/O isolation resistance	$R_{Iso}$	$10^{10}$ $\Omega$ / min	$10^{10}$ $\Omega$ / min	$10^{10}$ $\Omega$ / min	$10^{10}$ $\Omega$ / min

以上品牌及商標均為該當公司所有

BRAND		IC-HI	IC-HI	IC-HI	IC-HI	
Part / No.		HY311G2(A)	HY312G2(A)	HY314(A)	HY512(A)	
Photographs						
回路接續圖 Figure.(TOP VIEW)						
Output Type		1 Form A	1 Form A	1 Form A	1 Form B	
Package		DIP 4 / SMD 4	DIP 4 / SMD 4	DIP 4 / SMD 4	DIP 4 / SMD 4	
Size ( L xW xH ) mm		4.7 x 6.4 x 3.4	4.7 x 6.4 x 3.4	4.7 x 6.4 x 3.4	4.7 x 6.4 x 3.4	
Break Down Voltage	$V_L$	40V	60V	400V	60V	
Continuous Load Current	$I_L$	2000 mA	1100 mA	130 mA	500 mA	
Pulse Load Current	$I_{Peak}$	2.5 A	4.0 A	0.6 A	0.6 A	
Total power Dissipation	$P_T$	2 W	450 mW	350 mW	350 mW	
Isolation Voltage	$V_{Iso}$	3750 VAC	3750 VAC	3750 VAC	3750 VAC	
ELECTRICAL CHARACTERISTICS						
Input	LED operate current	$I_{Fon}$	5.0 mA / min	5.0 mA / min	5.0 mA / min	5.0 mA / min
	LED turn off current	$I_{Foff}$	0.35 mA / Typ.	0.35 mA / Typ.	0.35 mA / Typ.	0.4 mA / Typ.
	LED dropout voltage	$V_F$	1.2 V / Typ. @ $I_F = 10$ mA	1.2 V / Typ. @ $I_F = 10$ mA	1.2 V / Typ. @ $I_F = 10$ mA	1.2 V / Typ. @ $I_F = 10$ mA
Output	On resistance	$R_{on}$	0.06 $\Omega$ / Typ.	0.27 $\Omega$ / Typ.	20 $\Omega$ / Typ.	1 $\Omega$ / Typ.
	Output Capacitance	$C_{out}$	150 pF / Typ.	115 pF / Typ.	110 pF / Typ.	165 pF / Typ.
	Off state leakage current	$I_{Leak}$	1.0 $\mu$ A / max.	1.0 $\mu$ A / max.	1.0 $\mu$ A / max.	1.0 $\mu$ A / max.
Transfer Characteristics	Turn-on Time	$T_{on}$	0.8 mS / Typ.	1.5 mS / Typ.	0.5 mS / Typ.	0.5 mS / Typ.
	Turn-off Time	$T_{off}$	0.02 mS / Typ.	0.05 mS / Typ.	0.03 mS / Typ.	0.25 mS / Typ.
	I/O capacitance	$C_{Iso}$	0.8 pF / Typ.	0.8 pF / Typ.	0.8 pF / Typ.	0.8 pF / Typ.
	Initial I/O isolation resistance	$R_{Iso}$	$10^{10}$ $\Omega$ / min	$10^9$ $\Omega$ / min	$10^{10}$ $\Omega$ / min	$10^{10}$ $\Omega$ / min

以上品牌及商標均為該當公司所有

BRAND		IC-HI	IC-HI	IC-HI	IC-HI	
Part / No.		HV312(A)	HV312G2(A)	HV316(A)	HV514(A)	
Photographs						
回路接續圖 Figure.(TOP VIEW)						
Output Type		1 Form A	1 Form A	1 Form A	1 Form B	
Package		DIP 6 / SMD 6	DIP 6 / SMD 6	DIP 6 / SMD 6	DIP 6 / SMD 6	
Size ( L xW xH ) mm		8.8 x 6.4 x 3.4	8.8 x 6.4 x 3.4	8.8 x 6.4 x 3.4	8.8 x 6.4 x 3.4	
Break Down Voltage	$V_L$	60V	60V	600V	400V	
Continuous Load Current	$I_L$	400 mA	1100 mA	80 mA	120 mA	
Pulse Load Current	$I_{Peak}$	1.0 A	4.0 A	1.0 A	0.3 A	
Total power Dissipation	$P_T$	500 mW	450 mW	500 mW	550 mW	
Isolation Voltage	$V_{Iso}$	3750 VAC	3750 VAC	3750 VAC	3750 VAC	
ELECTRICAL CHARACTERISTICS						
Input	LED operate current	$I_{Fon}$	5.0 mA / min	5.0 mA / min	5.0 mA / min	5.0 mA / min
	LED turn off current	$I_{Foff}$	0.35 mA / Typ.	0.35 mA / Typ.	0.35 mA / Typ.	0.35 mA / Typ.
	LED dropout voltage	$V_F$	1.2 V / Typ. @ $I_F = 10$ mA	1.2 V / Typ. @ $I_F = 10$ mA	1.2 V / Typ. @ $I_F = 10$ mA	1.2 V / Typ. @ $I_F = 10$ mA
Output	On resistance	$R_{on}$	1 $\Omega$ / Typ.	0.27 $\Omega$ / Typ.	35 $\Omega$ / Typ.	20 $\Omega$ / Typ.
	Output Capacitance	$C_{out}$	115 pF / Typ.	115 pF / Typ.	115 pF / Typ.	165 pF / Typ.
	Off state leakage current	$I_{Leak}$	1.0 $\mu$ A / max.	1.0 $\mu$ A / max.	1.0 $\mu$ A / max.	10 $\mu$ A / max.
Transfer Characteristics	Turn-on Time	$T_{on}$	0.5 mS / Typ.	1.5 mS / Typ.	0.3 mS / Typ.	0.02 mS / Typ.
	Turn-off Time	$T_{off}$	0.35 mS / Typ.	0.05 mS / Typ.	0.02 mS / Typ.	0.5 mS / Typ.
	I/O capacitance	$C_{Iso}$	0.8 pF / Typ.	0.8 pF / Typ.	0.8 pF / Typ.	0.8 pF / Typ.
	Initial I/O isolation resistance	$R_{Iso}$	$10^{10}$ $\Omega$ / min	$10^{10}$ $\Omega$ / min	$10^9$ $\Omega$ / min	$10^{10}$ $\Omega$ / min

以上品牌及商標均為該當公司所有

BRAND		IC-HI	IC-HI	IC-HI	IC-HI	
Part / No.		HW311G2(A)	HW312G2(A)	HW314(A)	HW712(A)	
Photographs						
回路接續圖 Figure.(TOP VIEW)						
Output Type		2 Form A	2 Form A	2 Form A	1 Form A + 1 Form B	
Package		DIP 8 / SMD 8	DIP 8 / SMD 8	DIP 8 / SMD 8	DIP 8 / SMD 8	
Size ( L xW xH ) mm		9.8 x 6.4 x 3.4	9.8 x 6.4 x 3.4	9.8 x 6.4 x 3.4	9.8 x 6.4 x 3.4	
Break Down Voltage	$V_L$	40V	60V	400V	60V	
Continuous Load Current	$I_L$	2000 mA	1100 mA	130 mA	400 mA	
Pulse Load Current	$I_{Peak}$	2.5 A	2.5 A	0.6 A	700 mA	
Total power Dissipation	$P_T$	2 W	450 mW	350 mW	500 mW	
Isolation Voltage	$V_{Iso}$	3750 VAC	3750 VAC	3750 VAC	3750 VAC	
ELECTRICAL CHARACTERISTICS						
Input	LED operate current	$I_{Fon}$	5.0 mA / min	5.0 mA / min	5.0 mA / min	5.0 mA / min
	LED turn off current	$I_{Foff}$	0.35 mA / Typ.	0.35 mA / Typ.	0.35 mA / Typ.	0.35 mA / Typ.
	LED dropout voltage	$V_F$	1.2 V / Typ. @ $I_F = 10$ mA	1.2 V / Typ. @ $I_F = 10$ mA	1.2 V / Typ. @ $I_F = 10$ mA	1.2 V / Typ. @ $I_F = 10$ mA
Output	On resistance	$R_{on}$	0.06 $\Omega$ / Typ.	0.27 $\Omega$ / Typ.	20 $\Omega$ / Typ.	1 (NO) $\Omega$ / Typ. 6 (NC) $\Omega$ / Typ.
	Output Capacitance	$C_{out}$	190 pF / Typ.	115 pF / Typ.	110 pF / Typ.	150 pF / Typ.
	Off state leakage current	$I_{Leak}$	1.0 $\mu$ A / max.	1.0 $\mu$ A / max.	1 $\mu$ A / max.	1 $\mu$ A / max.
Transfer Characteristics	Turn-on Time	$T_{on}$	0.8 mS / Typ.	1.5 mS / Typ.	0.23 mS / Typ.	0.23 (N.O.) mS / Typ. 0.2 (N.C.) mS / Typ.
	Turn-off Time	$T_{off}$	0.02 mS / Typ.	0.05 mS / Typ.	0.03 mS / Typ.	0.03 (N.O.) mS / Typ. 0.5 (N.C.) mS / Typ.
	I/O capacitance	$C_{Iso}$	0.8 pF / Typ.	0.8 pF / Typ.	0.8 pF / Typ.	0.8 pF / Typ.
	Initial I/O isolation resistance	$R_{Iso}$	$10^{10}$ $\Omega$ / min	$10^{10}$ $\Omega$ / min	$10^{10}$ $\Omega$ / min	$10^{10}$ $\Omega$ / min

以上品牌及商標均為該當公司所有