		Dimensions (Unit : mm)
RPI-0226		
Photointerrupter, Ultraminiature SMD type Absolute maximum ratings (Ta=25°C)	N ²	
Parameter Symbol Limits Unit 0 Forward ourtent Ir 50 mA 8everse voltage Vs 5 V 9 Power dissipation Po 80 mW Collector-emitter voltage Vco 30 V	Applications DSC(Digital steal camera) DVC(Digital video camera) Digital handy phone	
Status Emitter-collector voltage Vico 4.5 V Collector voltage Vico 3.0 mA Collector power dissipation Pic 80 mW Operating temperature Topr -30 to +85 °C Storage temperature Tsig -40 to +85 °C	Features 1) Ultraminiature middle size SMD type. 2) Gap 1.2mm.	
Electrical and optical characteristics (Ta=25°C) Parameter Symbol Min. Typ. Max. Unit Option	Conditions	
g § g g § g g § g g § g g § g g δ μ forward voltage V ₁ - - 1.8 2.3 V I=500mA Werste current In - - 10 μA Vi=5V S g § g Dark current Inc - - 10 μA Vi=5V		
Best sensitivity wavelength ju - 800 - nm Image: Sensitivity wavelength i.e. - - mA Vcs=SV; ImSmA Image: Sensitivity wavelength i.e. 0.1 - - mA Vcs=SV; ImSmA Collector current i.e. 0.1 - - mA Vcs=SV; ImSmA Collector current i.e. 0.1 - - 0.4 Vcs=SV; ImSmA Collector current i.e. 0.1 - - 0.4 Vcs=SV; ImSmA Response time Rese time tr - 30 150 µs Vcs=SV; ImStruct ImA tr - 30 150 µs	-	
$\frac{\frac{3}{2}}{\frac{3}{2}\frac{5}{6}\frac{5}{6}} = \frac{8}{2} \operatorname{Peak} \operatorname{kght} emtiting wavelength \qquad \lambda_{P} \qquad - \qquad 850 \qquad - \qquad n_{P} \qquad \frac{1-50nA}{Korotherst brand b$		
$\frac{1}{2}$ $\frac{1}$	protected against electromagnetic wave:	<u> </u>
Electrical and optical characteristics curves		
СОПСССОВ СТОКВЕНИ. 1: [10]	WV902 C058ERU - + HV9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	LECTOR CURRENT : A (MA)
U 02 0 05 1 1.5 2 2.5 3 DISTANCE : (mm) AMBIENT TEMPERATURE : Ta (°C)	0 0.5 1 1.5 2 2.5 FORWARD VOLTAGE: V/(V)	B 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Fig.4 Relative output current vs. distance (II) Fig.2 Forward current falloff	Fig.3 Forward current vs. forward voltage	Fig.7 Collector current vs. Fig.8 Response time vs. Fig.9 Dark current vs. forward current set temperature ambient temperature
	000 ECO 6 CURERAT 1 (C) 6 CURERAT 1 (C) 6 CURERAT 1 (C) 6 CURERAT 1 (C) 6 CURE	
	40 -40 -20 0 20 40 60 80 10 120 -60 -40 -20 0 20 40 60 80 10 120	1 Delay time 1

COLLECTOR TO EMITTER VOLTAGE: Vos (V)

Fig.10 Output characteristics

ſ 0 0.5 1.0 1.5 2 DISTANCE : d (mm) Fig.1 Relative output current vs. distance (I)

POWER DISSIPATION / COLLECTOR POWER DI 20 0 20 40 60 80 AMBIENT TEMPERATURE : Ta (*C) Fig.5 Power dissipation / collector power dissipation vs. ambient temperature

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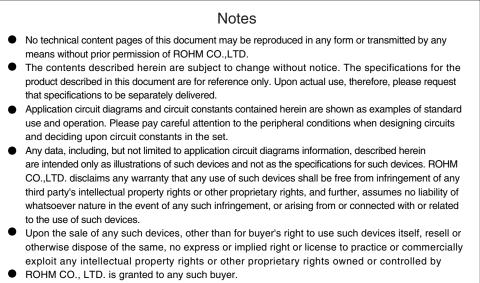
SOLL 20 -60 -40 -20 0 20 40 60 80 10 122 AMBIENT TEMPERATURE : Ta (*C)

Fig.6 Relative output vs. ambient temperature

Fig.11 Response time measurement circuit

t: Delay time t: Rise time (time for output current to rise from 10% to 90% of peak current) t: Fall time (time for output current to fall from 90% to 10% of peak current)

Rev.B



• Products listed in this document are no antiradiation design.

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