



# ORIENT

## Photocoupler

### Product Data Sheet

Name: ORPC-817

Customer: \_\_\_\_\_

Date: \_\_\_\_\_

\_\_\_\_\_

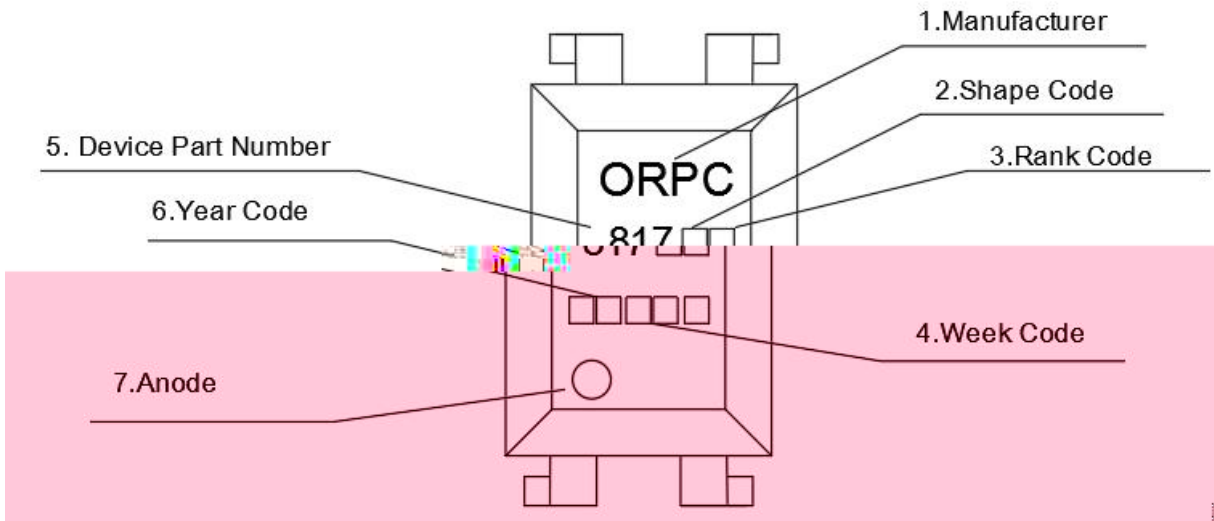


				mA
				A
				V
				mW
				V
				mA
				mW
				mW
				Vrms
				V
				V

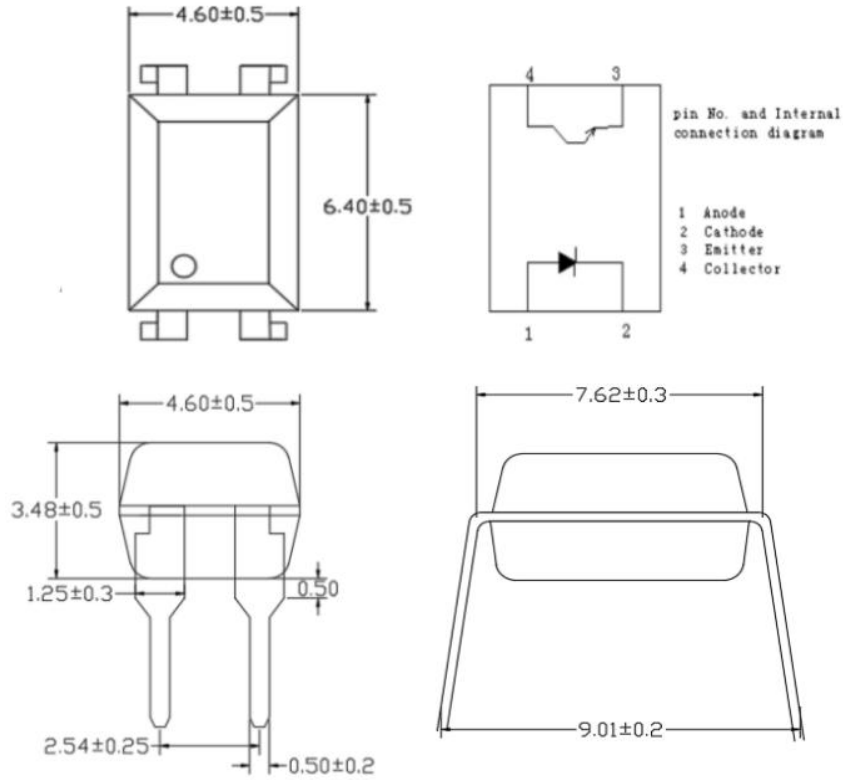
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	Forward Current	$V_F$	$I_F=20\text{mA}$	---	1.2	1.4	V
	Reverse Voltage	$I_R$	$V_R=4\text{V}$	---	---	10	$\mu\text{A}$
	Collector capacitance	$C_t$	$V=0, f=1\text{KHz}$	---	30	250	pF
	Collector to emitter Current	$I_{CEO}$	$V_{CE}=20\text{V}, I_F=0\text{mA}$	---	---	100	nA
	Collector and Emitter attenuation Voltage	$BV_{CEO}$	$I_C=0.1\text{mA}, I_F=0\text{mA}$	80	---	---	V
	Emitter and Collector attenuation Voltage	$BV_{ECO}$	$I_E=0.1\text{mA}, I_F=0\text{mA}$	6	---	---	V
	*1 Current conversion ratio	CTR	$I_F=5\text{mA}, V_{CE}=5\text{V}$	50	---	1000	%
	Collector Current	$I_C$		2.5	---	50	mA
	Collector and Emitter Saturation Voltage	$V_{CE(sat)}$	$I_F=20\text{mA}, I_C=1\text{mA}$	---	0.1	0.2	V
	Insulation Impedance	$R_{iso}$	DC500V 40~60%R.H.	---	$1 \cdot 10^{12}$	---	$\Omega$
	Floating Capacitance	$C_f$	$V=0, f=1\text{MHz}$	---	0.6	1.0	pF
	Cut-off Frequency	$f_c$	$V_{CE}=5\text{V}, I_C=2\text{mA}, R_L=100\Omega, -3\text{dB}$	---	80	---	kHz
	Rise Time	$t_r$	$V_{CE}=2\text{V}, I_C=2\text{mA}$	---	4	18	$\mu\text{s}$
	Descend Time	$t_f$	$R_L=100\Omega$	---	3	18	$\mu\text{s}$





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