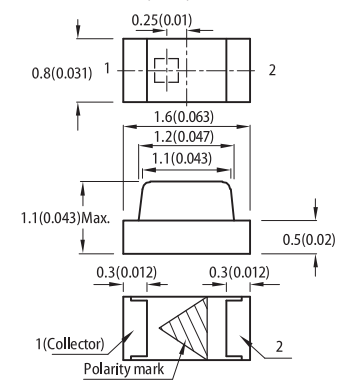


PHOTOTRANSISTOR

Part Number	Lens Type	Dimensions
KP-1608P1C	water clear	1.6mm x 0.8mm x 1.1mm (0603)
KP-2012P3C	water clear	
KP-3216P3C	water clear	
KPA-3010P3C	water clear	



Units : mm(inch)
Tolerance : ±0.1(0.004)

Electrical And Radiant Characteristics $T_A = 25^\circ\text{C}$

Parameter	Symbol	Part Number	Min.	Typ.	Max.	Unit	Test Condition
Collector-to-Emitter Breakdown Voltage	$V_{BR\ CE0}$	-	30	-	-	V	$I_C = 100\mu\text{A}$ $E_e = 0\text{mW/cm}^2$
Emitter-to-Collector Breakdown Voltage	$V_{BR\ ECO}$	-	5	-	-	V	$I_E = 100\mu\text{A}$ $E_e = 0\text{mW/cm}^2$
Collector-to-Emitter Saturation Voltage	$V_{CE(SAT)}$	-	-	-	0.8	V	$I_C = 2\text{mA}$ $E_e = 20\text{mW/cm}^2$
Collector Dark Current	I_{CEO}	-	-	-	100	nA	$V_{CE} = 10\text{V}$ $E_e = 0\text{mW/cm}^2$
Rise Time (10% to 90%)	T_R	-	-	15	-	μs	$V_{CE} = 5\text{V}$ $I_C = 1\text{mA}$ $R_L = 1\text{K}\Omega$
Fall Time (90% to 10%)	T_F	-	-	15	-	μs	
On State Collector Current	$I_{(ON)}$	KP-1608P1C	0.1	0.3	-	mA	$V_{CE} = 5\text{V}$, $E_e = 1\text{mW/cm}^2$ $\lambda = 940\text{nm}$
		KP-2012P3C	0.2	0.4			
		KP-3216P3C	0.2	0.4			
		KPA-3010P3C	0.2	0.4			

2.0mm x 1.25mm x 1.1mm (0805)

KP-2012

Units : mm(inch)
Tolerance : ±0.1(0.004)

3.2mm x 1.6mm x 1.1mm (1206)

KP-3216

Units : mm(inch)
Tolerance : ±0.2(0.008)

Absolute Maximum Rating $T_A = 25^\circ\text{C}$

Parameter	Maximum Ratings
Collector-to-Emitter Voltage	30V
Emitter-to-Collector Voltage	5V
Power Dissipation at (or below) 25°C Free Air Temperature	100mW
Operating Temperature Range	-40°C~ +85°C
Storage Temperature Range	-40°C~ +85°C

3.0mm x 1.0mm x 2.0mm (1104)

KPA-3010

Units : mm(inch)
Tolerance : ±0.15(0.006)