

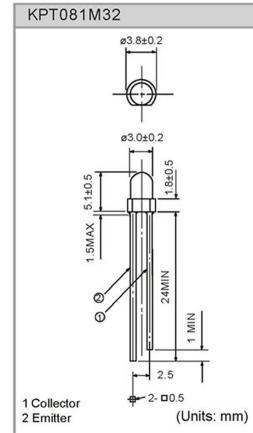
Silicon Phototransistors KPT081M32

Features

- NPN phototransistor
- Transparent epoxy potting
- Low leak current

Applications

- Optical switches
- Optical encoders
- Photo-isolator
- Camera stroboscopes
- Infrared sensors
- Automatic control apparatus



■ Specifications

● Absolute Maximum Ratings

Parameter	Symbol	Value	Unit	Conditions
Collector-emitter voltage	V_{CEO}	20	V	
Emitter-collector voltage	V_{ECO}	5	V	
Collector dissipation	P_D	75	mW	
Operating temperature	T_{opr}	-20 to +85		Avoid dew condensation
Storage temperature	T_{stg}	-30 to +100		Avoid dew condensation

● Electrical and Optical characteristics

Parameter	Symbol	Value			Unit	Conditions
		Min.	Typ.	Max		
Sensitive size	S		0.64 x 0.64		mm	
Sensitive wavelength		400	800(p)	1000	nm	p=Peak wavelength
Photocurrent	I_L		4		mA	$V_{CE}=5V$, 1000lx(@2856K)
Dark current	I_D		5	200	nA	$V_{CE}=20V$
Current amplification factor	h_{FE}	600			-	$V_{CE}=5V$, $I_C=2mA$
Collector-Emitter Saturation Voltage	$V_{CE}(\text{sat})$			0.4	V	$I_C=1mA$, 1000lx(@2856K)
Rise/Fall Time	tr, tf		5		μS	$V_{CE}=5V$, $I_C=2mA$, $R_L=100$
Half angle	2		90		deg	