

# PC317 Series

Opaque\*, Mini-Flat Package, General Purpose Photocoupler

## Features

1. Opaque type, mini-flat package  
PC317 (1-channel) PC3D17 (2-channel)  
PC3Q17 (4-channel)
2. Subminiature type  
(The volume is smaller than that of our conventional DIP type by as far as 30%.)
3. Current transfer ratio  
CTR: MIN. 50% at  $I_F=5\text{mA}$ ,  $V_{CE}=5\text{V}$
4. Isolation voltage between input and output  
 $V_{ISO}: 2,500\text{Vrms}$

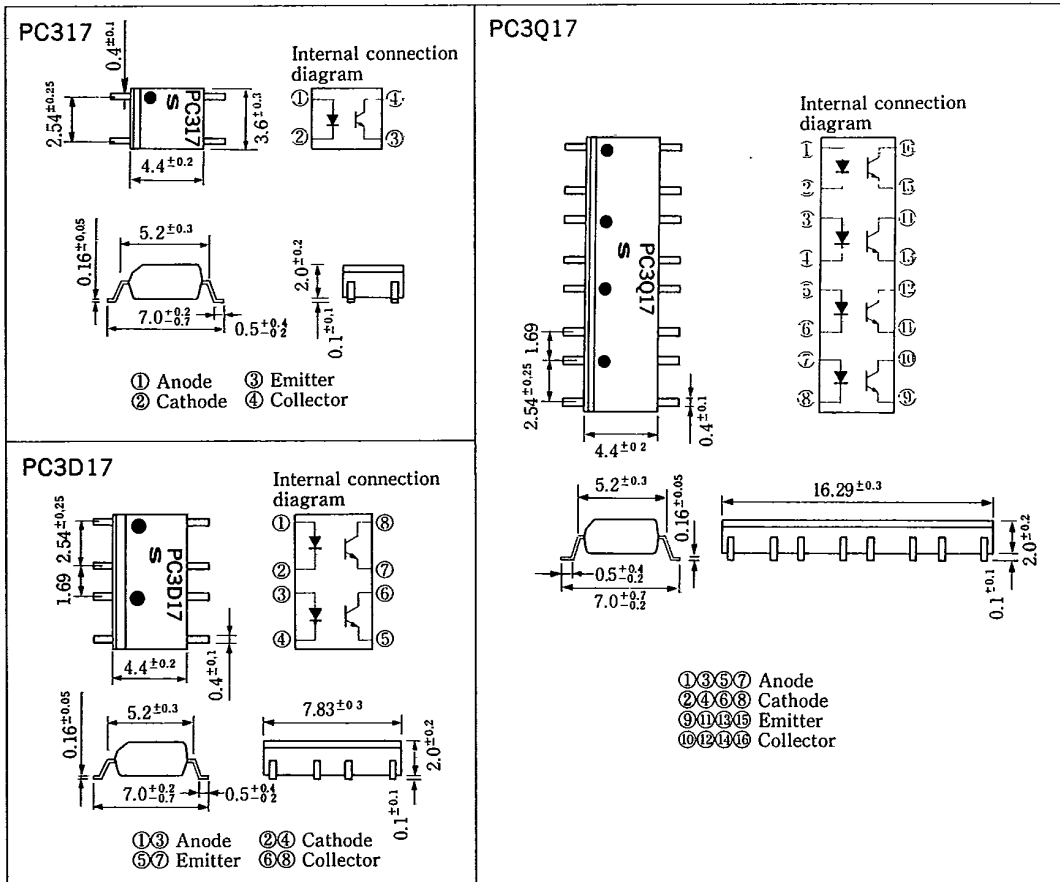
\* Empolys double transfer mold technology.

## Applications

1. Hybrid substrates that require high density mounting
2. Programmable controllers

## Outline Dimensions

(Unit : mm)



SHARP



Fig. 2 Collector Power Dissipation vs. Ambient Temperature

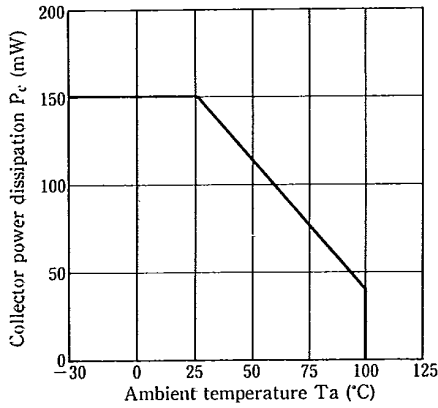


Fig. 3 Peak Forward Current vs. Duty Ratio

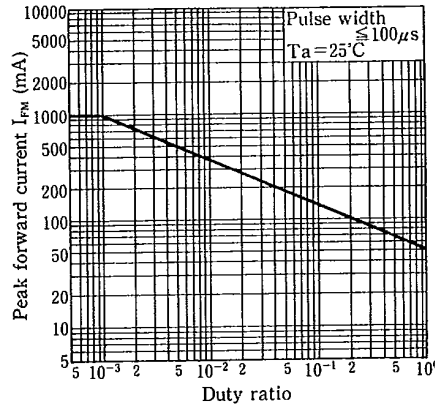


Fig. 4 Forward Current vs. Forward Voltage

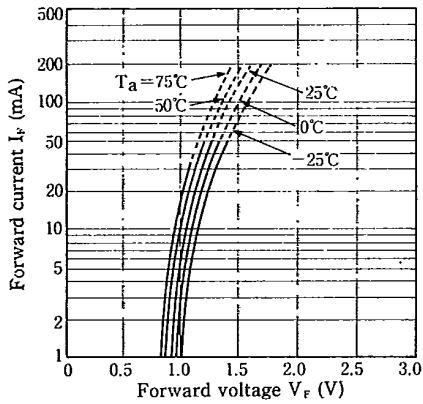


Fig. 5 Current Transfer Ratio vs. Forward Current

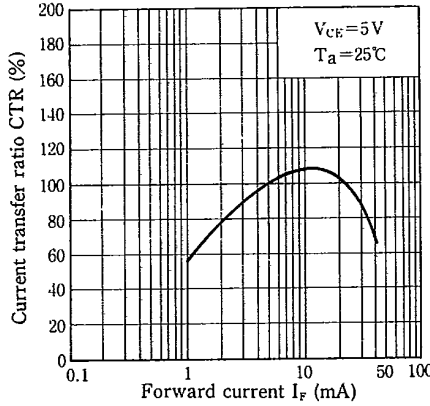


Fig. 6 Collector Current vs. Collector-emitter Voltage

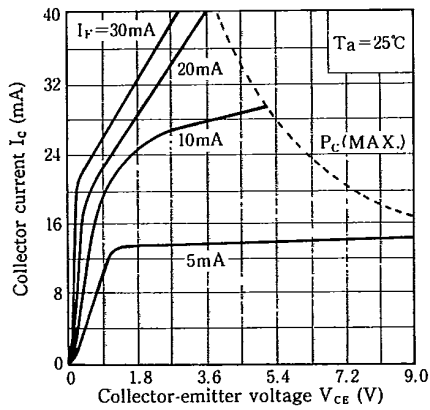
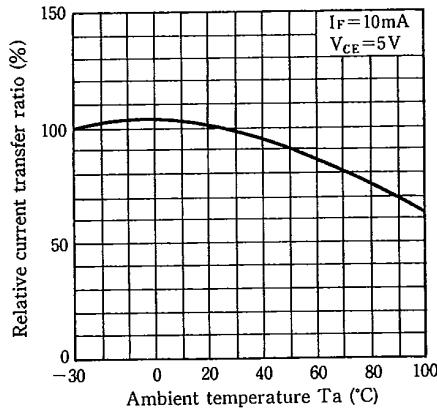
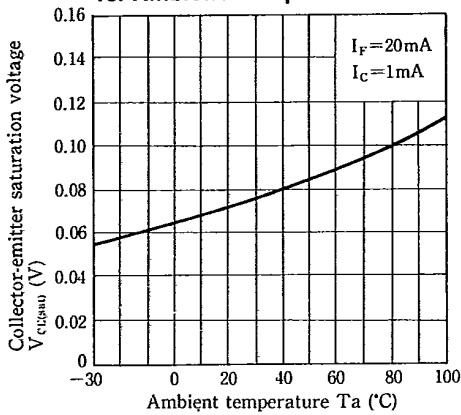


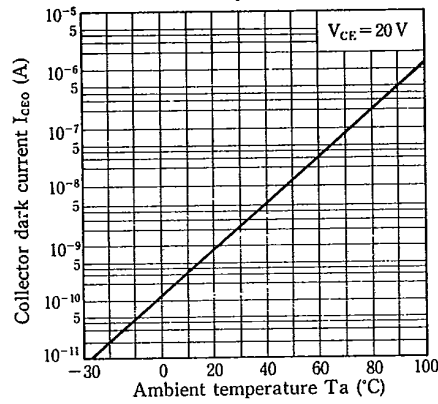
Fig. 7 Relative Current Transfer Ratio vs. Ambient Temperature



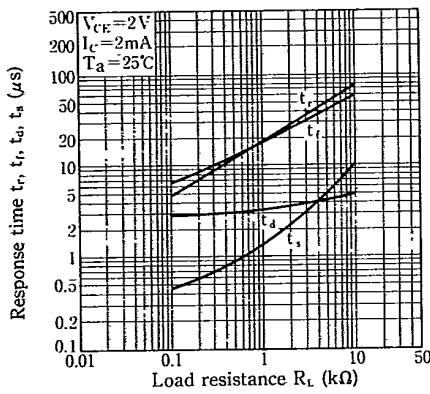
**Fig. 8 Collector-emitter Saturation Voltage vs. Ambient Temperature**



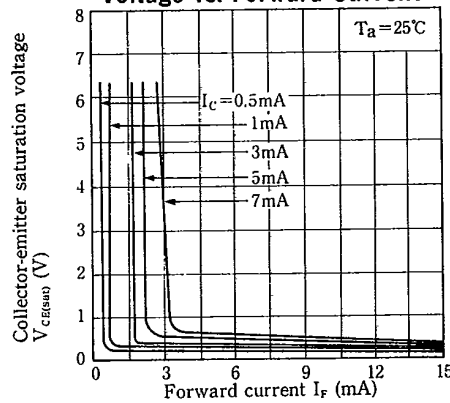
**Fig. 9 Collector Dark Current vs. Ambient Temperature**



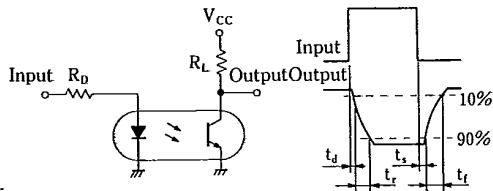
**Fig. 10 Response Time vs. Load Resistance**



**Fig. 11 Collector-emitter Saturation Voltage vs. Forward Current**



**Test Circuit for Response Time**



**Package Specification of PC300 Series (1-ch type)**

Model No.	Sales Unit	Package Specifications	Diameter of Reel	Tape Width
PC3 * * Z	1 pc.	Sleeve package (Net: 125 pcs.)	—	—
PC3 * *	3,000 pcs.	Taping package (Net: 3,000 pcs.)	φ370mm	12mm
PC3 * T	750 pcs.	Taping package (Net: 750 pcs.)	φ178mm	12mm

6