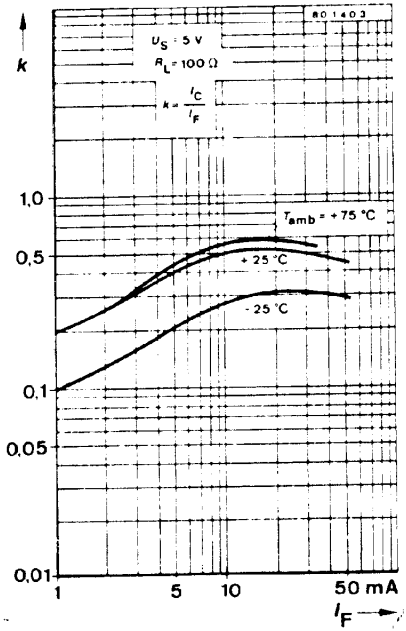
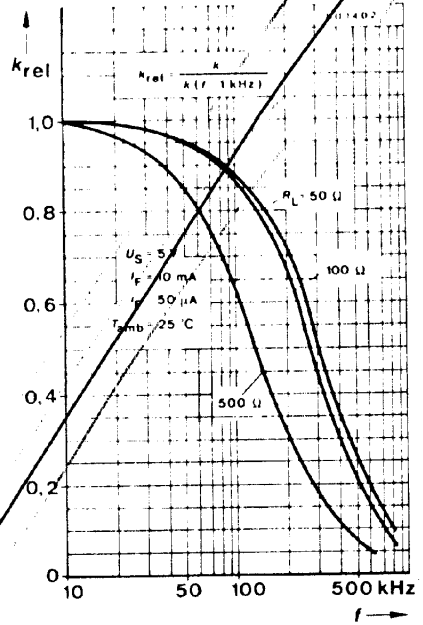
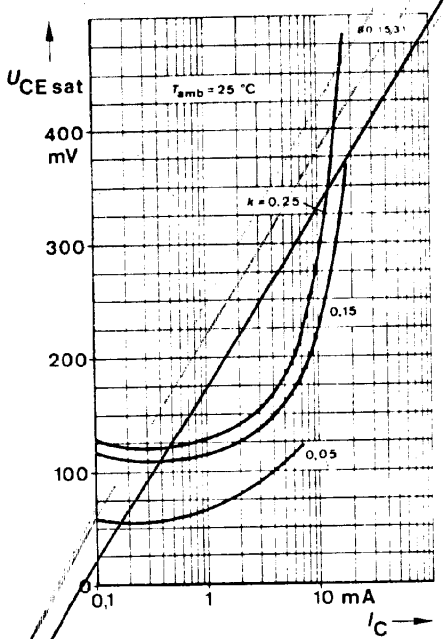
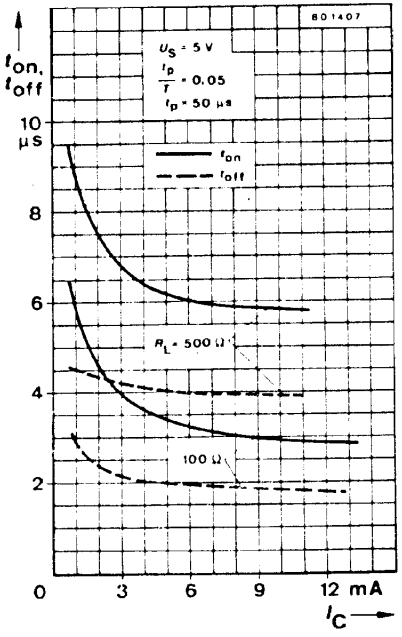








Optoelektronische Gabelkoppler



Aufbau Emitter: GaAs-IR-Lumineszenzdiode
Detektor: Silizium-NPN-Epitaxial-Planar-Fototransistor

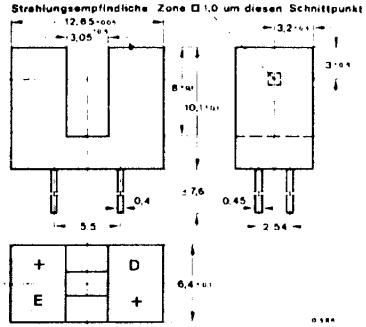
Anwendungen: Optoelektronische Abtast- und Schalteinrichtung z. B. für Farbmarkenerkennung, Codierscheibenabtastung usw.

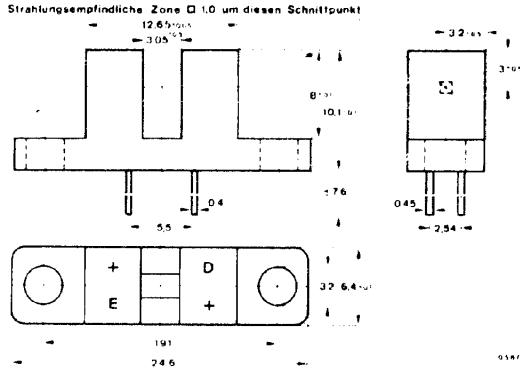
Besondere Merkmale:

- Kompakte Bauform
- CNY 36 für Leiterplattenmontage
- CNY 37 mit Befestigungsflanschen
- Kein Justieraufwand
- Kontaktloser Schalter, dadurch hohe Zuverlässigkeit
- Kunststoff-Gehäuse

Vorläufige technische Daten

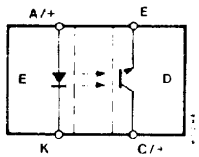
Abmessungen in mm





CNY 36

CNY 37

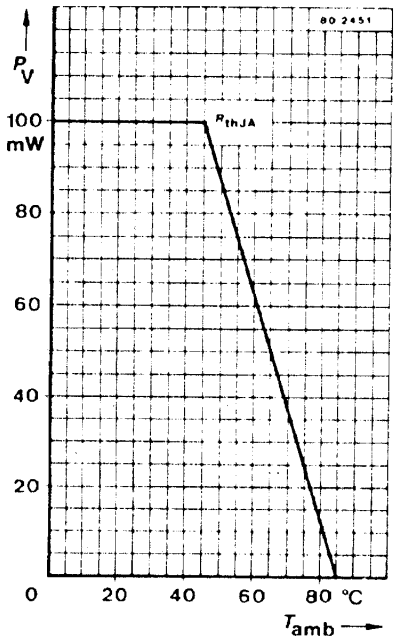


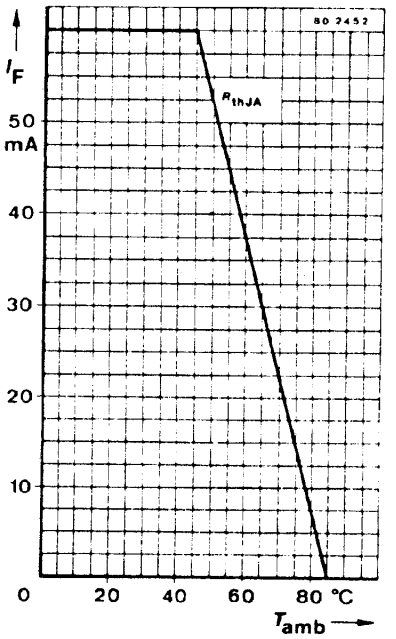
Kunststoffgehäuse

Absolute Grenzdaten

Sender			
Sperrspannung	U_R	5	V
Durchlaßstrom	I_F	60	mA
Stoßdurchlaßstrom $\frac{t_p}{T} = 0{,}01,\ t_p \leq 0{,}1$ ms	I_{FSM}	1	A
Verlustleistung $T_{amb} \leq 25$ °C	P_V	100	mW
Sperrschichttemperatur	T_j	85	°C
Empfänger			
Kollektor-Emitter-Sperrspannung	U_{CEO}	32	V
Emitter-Kollektor-Sperrspannung	U_{ECO}	5	V
Kollektorstrom	I_C	100	mA
Verlustleistung $T_{amb} \leq 25$ °C	P_V	150	mW
Sperrschichttemperatur	T_j	85	°C
Koppelelement			
Gesamtverlustleistung $T_{amb} \leq 25$ °C	P_{tot}	250	mW
Lagerungstemperaturbereich	T_{stg}	−25...+85	°C
Maximal zulässige Löttemperatur $t \leq 3$ s	T_{sd}[1])	245	°C

CNY 36 · CNY 37

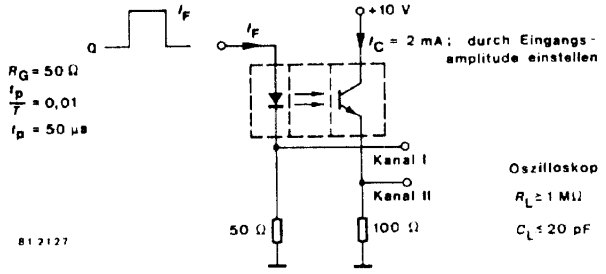




Elektrische Kenngrößen
$T_{amb} = 25$ °C

		Min.	Typ.	Max.	
Sender					
Durchlaßspannung $I_F = 20$ mA	U_F*)		1,2	1,5	V
Durchbruchspannung $I_R = 100\ \mu$A	$U_{(BR)}$*)	5			V
Sperrschichtkapazität $U_R = 0,\ f = 1$ MHz	C_j		50		pF
Empfänger					
Kollektor-Emitter-Durchbruchspannung $I_C = 1$ mA	$U_{(BR)CEO}$*)	32			V
Kollektor-Dunkelstrom $U_{CE} = 10$ V, $I_F = 0,\ E = 0$	I_{CEO}*)			100	nA

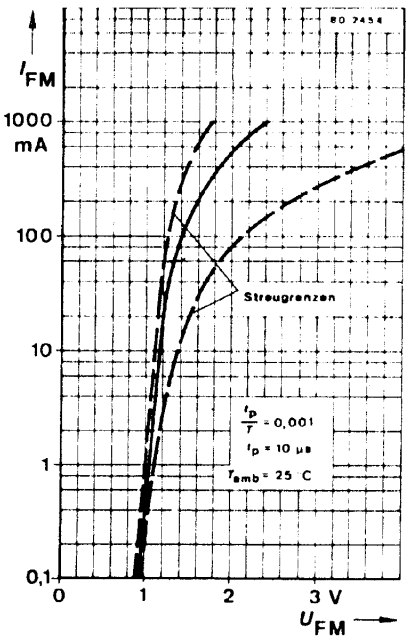
		Min.	Typ.	Max.	
Koppelelement					
Kollektorstrom U_{CE} = 10 V, I_F = 20 mA	I_C*)	0,2	0,8		mA
Koppelfaktor U_{CE} = 10 V, I_F = 20 mA	k	0,01	0,04		
Kollektor-Dunkelstrom U_{CE} = 10 V, I_F = 20 mA, E = 0, geschlossene Blende	I_{CEO}*)[1])		0,1		µA
Kollektor-Emitter-Sättigungsspannung I_C = 25 µA, I_F = 20 mA	U_{CEsat}*)			0,4	V
Schaltzeiten					
U_S = 10 V, I_C = 2 mA, R_L = 100 Ω, siehe Meßschaltung					
Verzögerungszeit	t_d		1,8		µs
Anstiegszeit	t_r		2,5		µs
Einschaltzeit	t_{on}		4,3		µs
Speicherzeit	t_s		0,3		µs
Abfallzeit	t_f		3,3		µs
Ausschaltzeit	t_{off}		3,6		µs

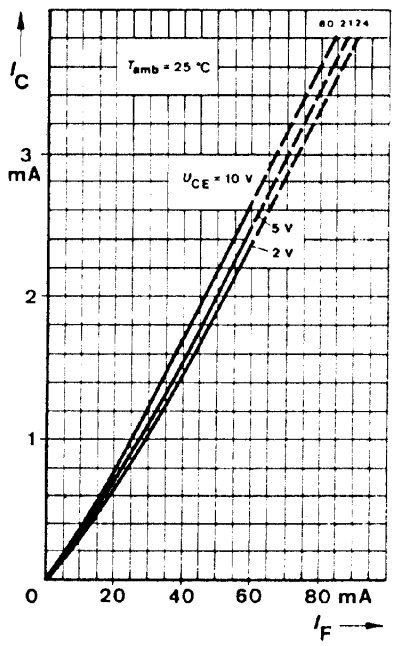


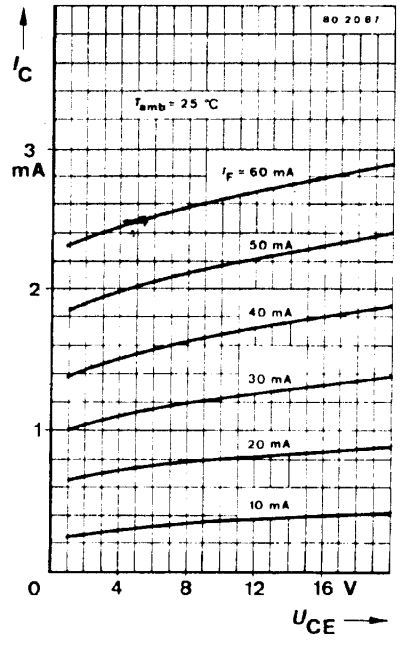
Meßschaltung

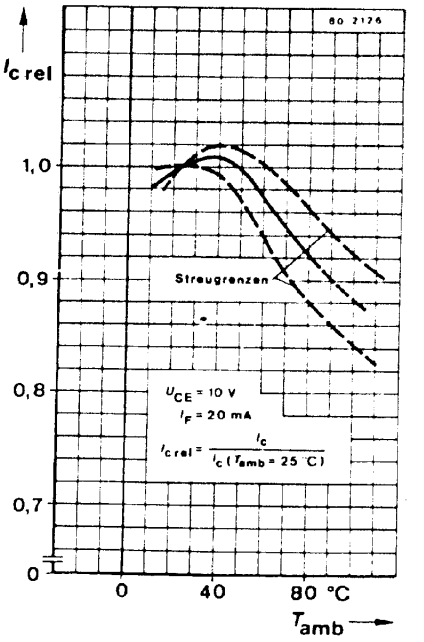
*) AQL = 0,65 %; [1]) Streugrenzen: 0,03 ... 1 µA

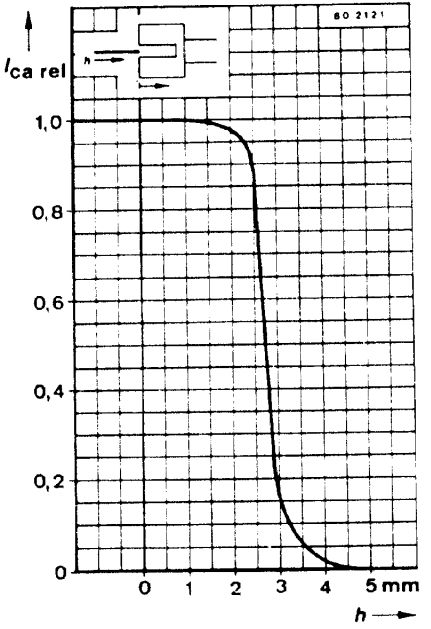
CNY 36 · CNY 37

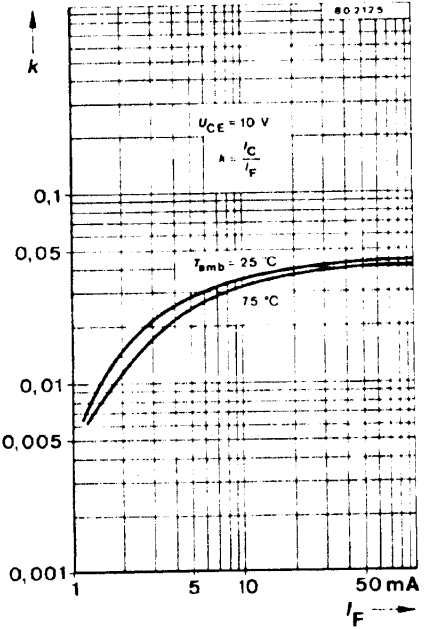









80 2121
$I_{ca\ rel}$
h
1,0
0,8
0,6
0,4
0,2
0
0 1 2 3 4 5 mm
h


80 2125
k
U_{CE} = 10 V
$k = \frac{I_C}{I_F}$
T_{amb} = 25 °C
75 °C
0,1
0,05
0,01
0,005
0,001
1 5 10 50 mA
I_F

ENTEGRECİ

Bu belge www.entegreci.com üzerinden sunulmaktadır.

Elektronik komponent tedarikinde Entegreci

Entegreci, Eskişehir merkezli, Türkiye geneline satış yapan bir elektronik komponent mağazasıdır. Entegreler (IC), mikrodenetleyiciler, transistörler, diyotlar, pasif elemanlar, konnektörler, modüller ve geliştirme kartları tek adetten seri üretim adetlerine kadar satılır. Ürün sayfalarında güncel stok durumunu, fiyatı ve datasheet bağlantısını bulabilirsiniz.

Parça koduyla arama

Üretici parça numarasını yazın; stok ve fiyatı hemen görün.

www.entegreci.com

Ürün kategorileri

Entegreden kapasitöre tüm elektronik komponent kategorileri.

Kategorilere göz atın

Üreticiler

Aradığınız üreticinin ürünlerini tek sayfada inceleyin.

Üreticileri görün

Toplu alım ve teklif

Listede olmayan ya da yüksek adetli parçalar için teklif isteyin.

Teklif isteyin

www.entegreci.com | **destek@entegreci.com** | **0850 305 90 34**

Entegreci is an online electronic components store based in Türkiye. Search by manufacturer part number to see stock, prices and datasheets for integrated circuits, microcontrollers, transistors, passive components and connectors, or request a quote for parts that are not listed.

Bu sayfa Entegreci tarafından eklenmiştir. Belgenin önceki sayfaları asıl yayıncısına aittir ve içeriği değiştirilmemiştir; en güncel sürüm için belgenin yayıncısına başvurun.