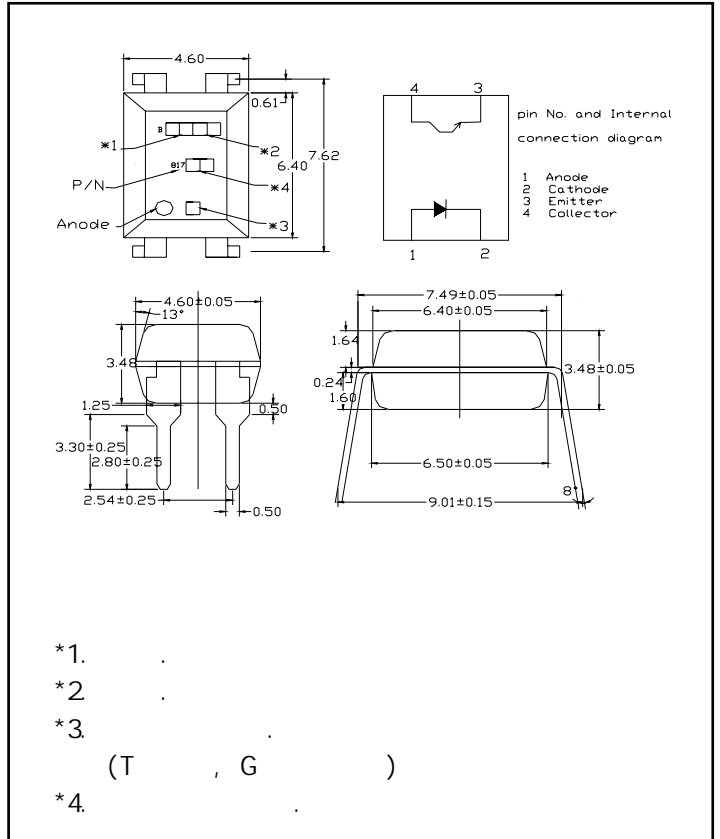


1. (CTR: .50%  $I_F=5mA$ ,  $V_{CE}=5V$ )  
 2. ( $V_{ISO}=5,000V_{rms}$ )  
 3. (tr: TYP. 4 $\mu$ s  $V_{CE}=2V$ ,  $I_C=2mA$ ,  $R_L=100$ )  
 4. UL (.E236324)  
 5. CSA (.218896)  
 6. VDE (.40007240)  
 7. TUV (.R50029014)



GaAs

1. BPC-817 NPN  
 2. BPC-817 BIN 2.54mm

1.  
2.  
3.  
4.  
5.

( =25 )

		$I_F$	50	mA
		$V_R$	6	V
		P	70	mW
		$V_{CEO}$	35	V
		$V_{ECO}$	6	
		$I_C$	50	mA
		$P_C$	150	mW
		$P_{tot}$	200	mW
	*1	$V_{iso}$	5,000	Vrms
		$V_{IOTM}$	6,000	V
		$V_{IORM}$	630	V
		$T_{opr}$	-30 to + 100	
		$T_{stg}$	-55 to + 125	
	*2	$T_{sol}$	260	

\*1. =40~60%

- (1)  
(2)  
(3)

\*2. 10

( =25 )

				.	.		
		$V_F$	$I_F=20mA$	---	1.2	1.4	V
		$I_R$	$V_R=4V$	---	---	10	$\mu A$
		$C_t$	$V=0, f=1KHz$	---	30	250	pF
		$I_{CEO}$	$V_{CE}=20V, I_F=0$	---	---	100	nA
		$BV_{CEO}$	$I_C=0.1mA$ $I_F=0$	35	---	---	V
		$BV_{ECO}$	$I_E=10\mu A$ $I_F=0$	6	---	---	V
		$I_c$	$I_F=5mA$	2.5	---	30	mA
	*1	CTR	$V_{CE}=5V$	50	---	600	%
		$V_{CE(sat)}$	$I_F=20mA$ $I_C=1mA$	---	0.1	0.2	V
		$R_{iso}$	DC500V 40~60%R.H.	$5 \times 10^{10}$	$1 \times 10^{11}$	---	
		$C_f$	$V=0, f=1MHz$	---	0.6	1	pF
		$f_c$	$V_{CE}=5V,$ $I_C=2mA$ $R_L=100 \Omega,$ -3dB	---	80	---	kHz
		$t_r$	$V_{CE}=2V,$ $I_C=2mA$	---	4	18	$\mu s$
		$t_f$	$R_L=100 \Omega$	---	3	18	$\mu s$

\*1  $= I_C / I_F \times 100\%$

	. (%)	. (%)
L	50	100
A	80	160
B	130	260
C	200	400
D	300	600
L or A or B or C or D	50	600

Fig.1 Forward Current vs. Ambient Temperature

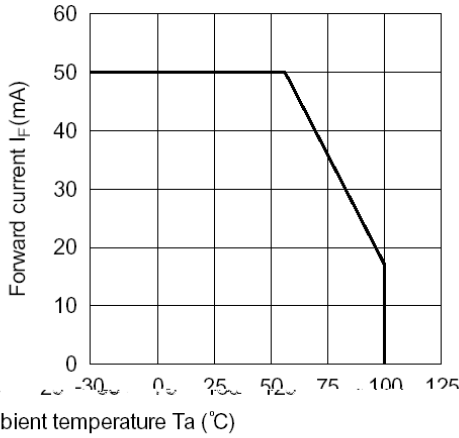
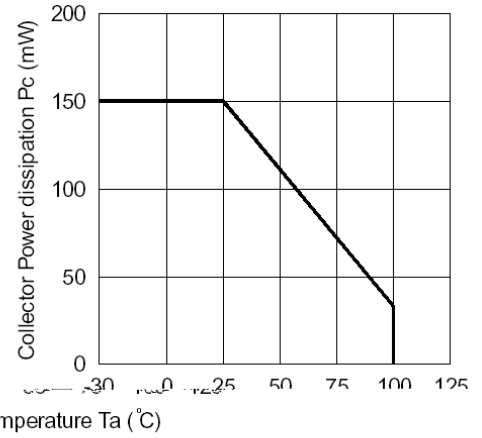


Fig.2 Collector Power Dissipation vs. Ambient Temperature



Forward Current vs. Forward Voltage

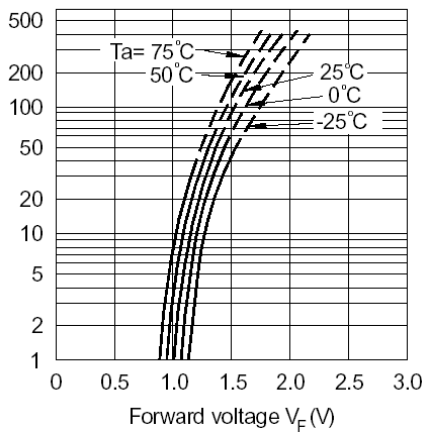


Fig.3 Collector-emitter Saturation Voltage vs. Forward Current

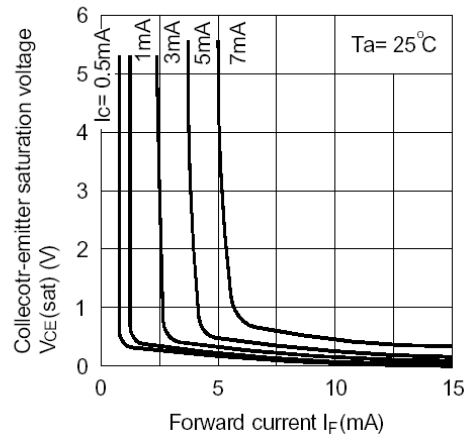


Fig.4

Forward current  $I_F$  (mA)

Collector Current vs. Collector-emitter Voltage

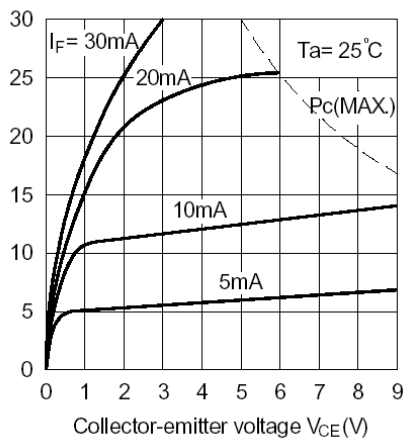


Fig.5 Current Transfer Ratio vs. Forward Current

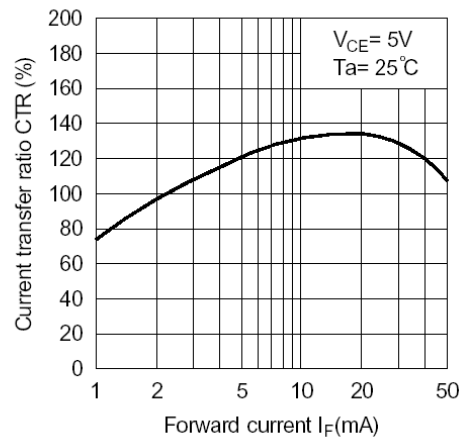


Fig.6

Collector current  $I_c$  (mA)

Fig.7 Relative Current Transfer Ratio vs. Ambient Temperature

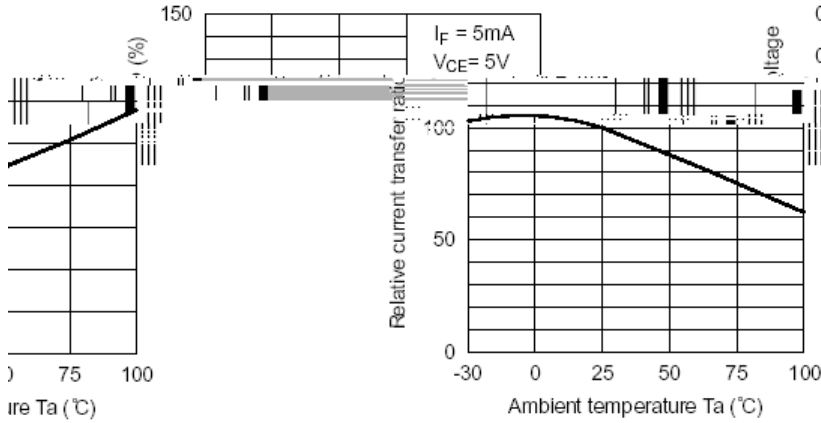


Fig.8 Collector-emitter Saturation Voltage vs. Ambient Temperature

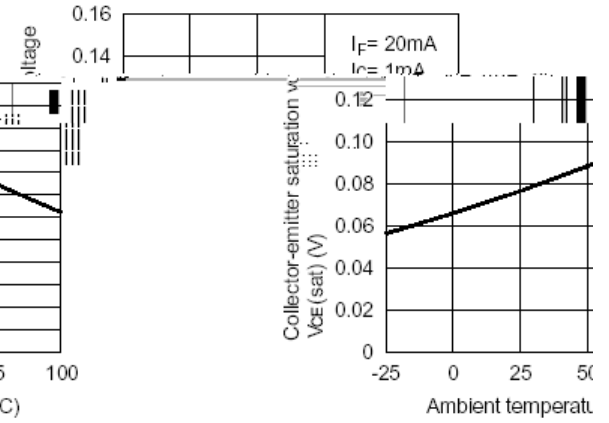


Fig.9 Collector Dark Current vs. Ambient Temperature

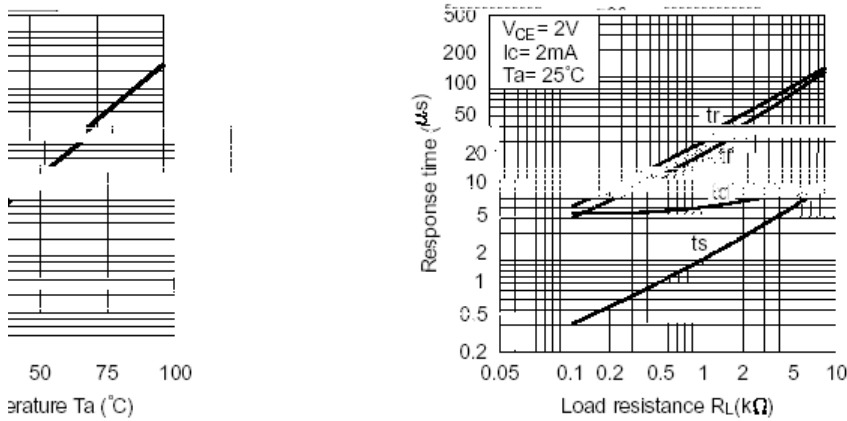
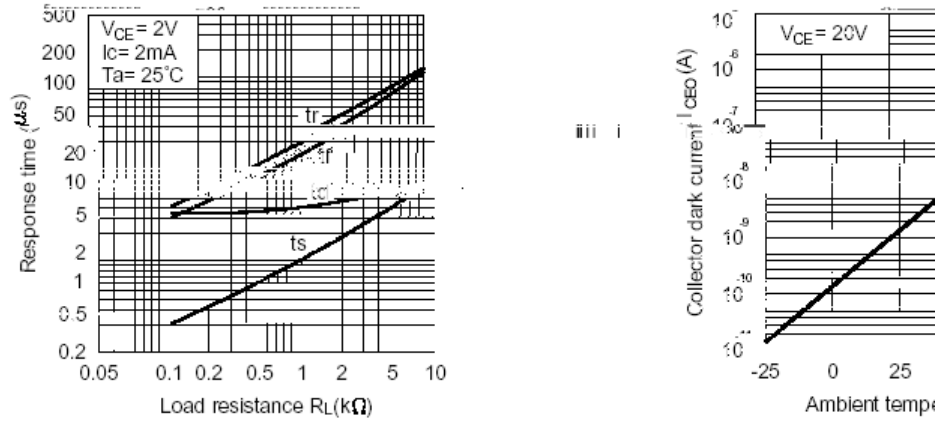
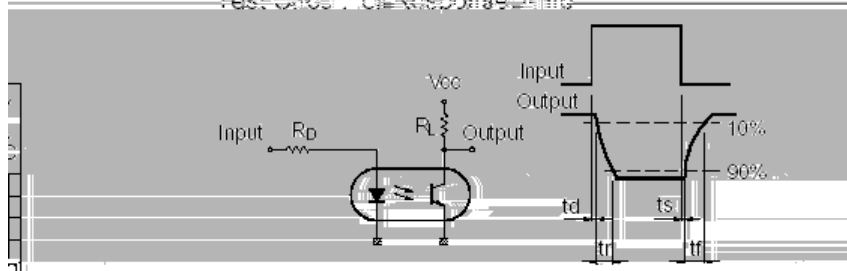


Fig.10 Response Time vs. Load Resistance



Test Circuit for Response Time



Test Circuit for Frequency Response

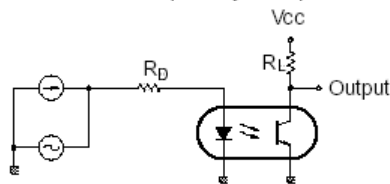
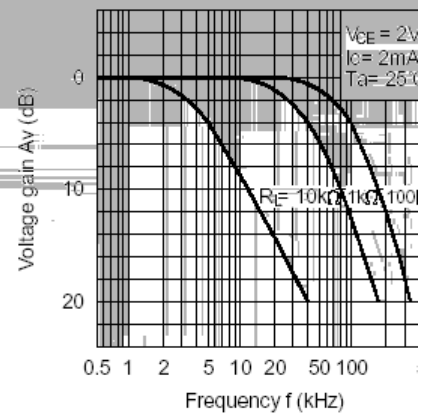


Fig.11 Frequency Response



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