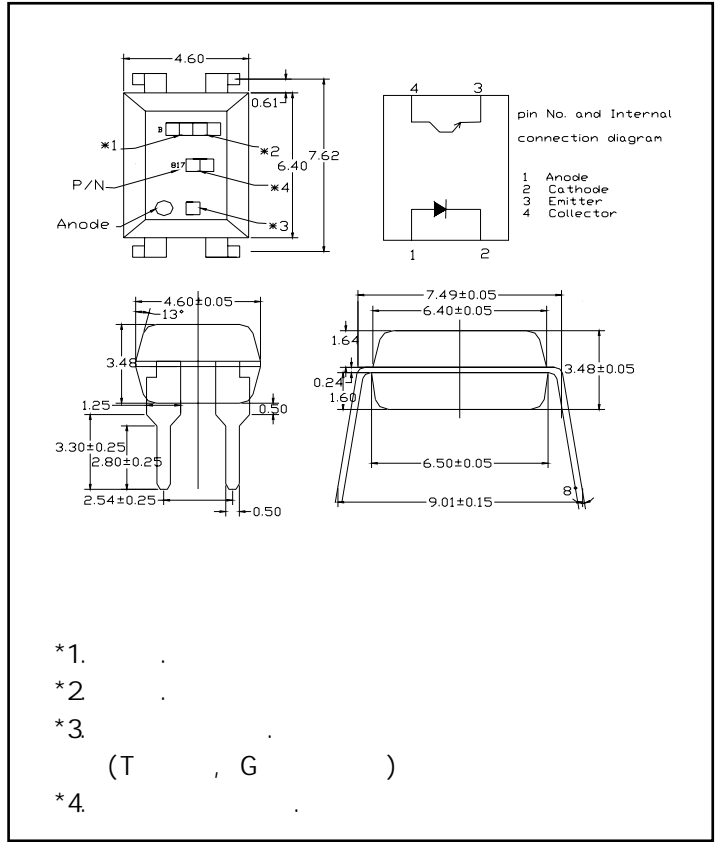


1. (CTR: .50%  $I_F=5mA$ ,  $V_{CE}=5V$ )  
 2. ( $V_{ISO}=5,000V_{rms}$ )  
 3. (tr: TYP. 4 $\mu$ s  $V_{CE}=2V$ ,  $I_C=2mA$ ,  $R_L=100\Omega$ )  
 4. UL ( .E236324)  
 5. CSA ( .218896)  
 6. VDE ( .40007240)  
 7. TUV ( .R50029014)



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

(  $T_a = 25$  )

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

\*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

:

1. :  $I_F=5\text{mA}, V_{\text{CE}}=5\text{V}, T_a=25$  .

Fig.1 Forward Current vs. Ambient Temperature

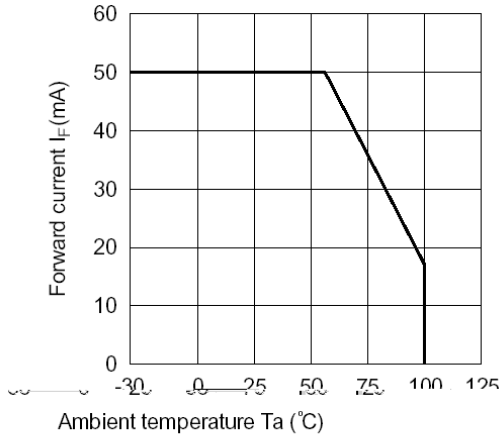


Fig.2 Collector Power Dissipation vs. Ambient Temperature

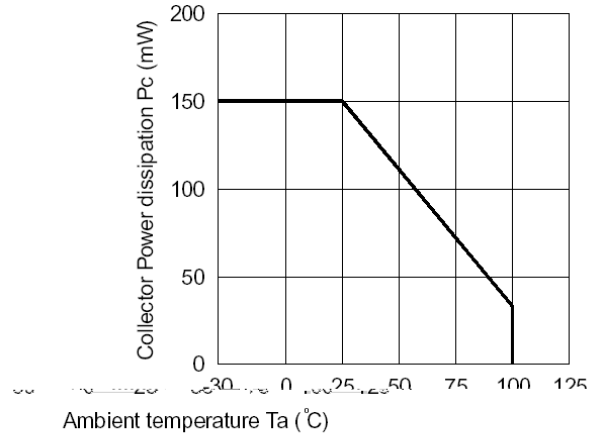


Fig.4 Forward Current vs. Forward Voltage

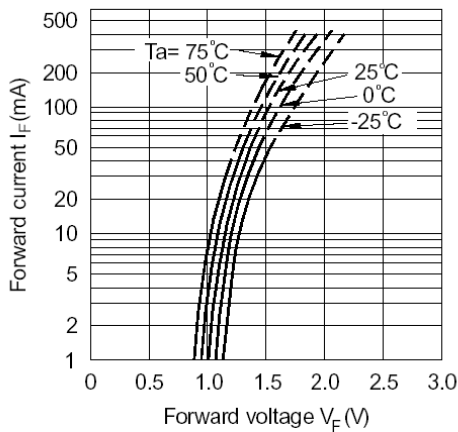
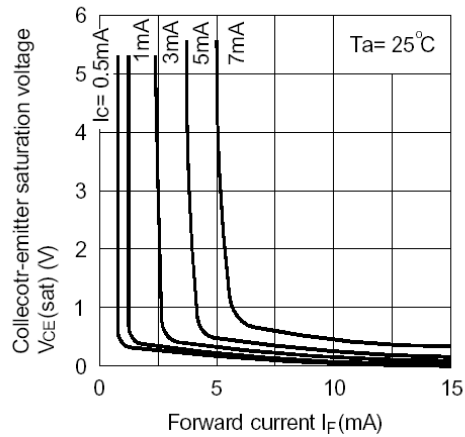


Fig.3 Collector-emitter Saturation Voltage vs. Forward Current



Fig

Fig.6 Collector Current vs. Collector-emitter Voltage

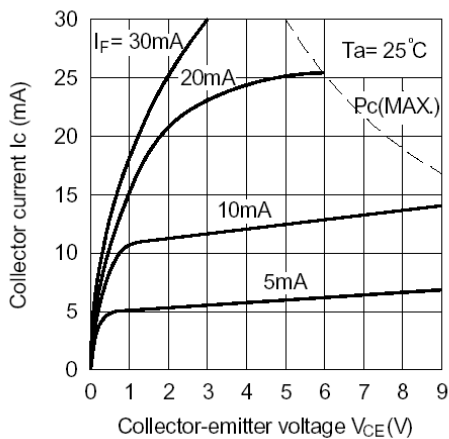
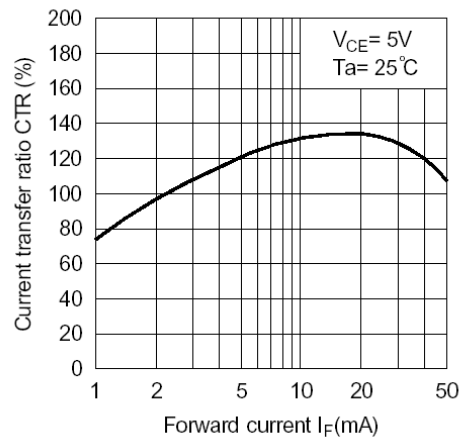


Fig.5 Current Transfer Ratio vs. Forward Current



Fig

Fig.7 Relative Current Transfer Ratio vs. Ambient Temperature

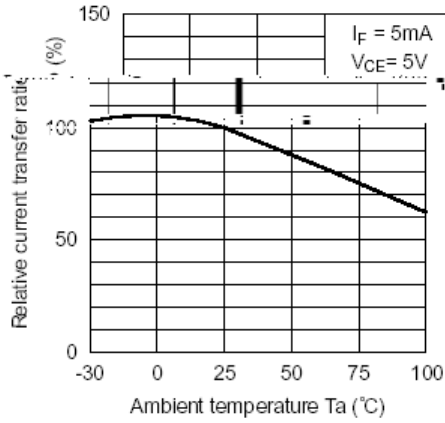


Fig.8 Collector-emitter Saturation Voltage vs. Ambient Temperature

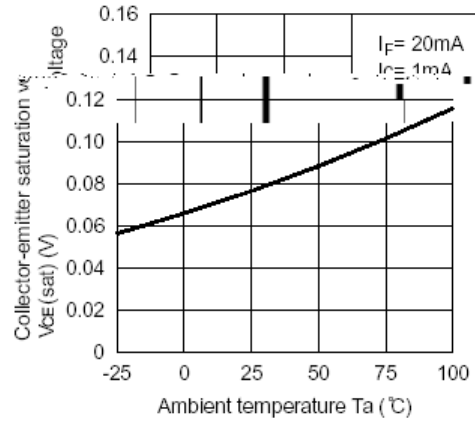


Fig.9 Collector Dark Current vs. Ambient Temperature

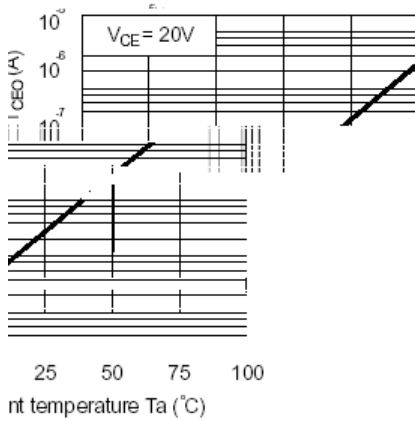


Fig.10 Response Time vs. Load Resistance

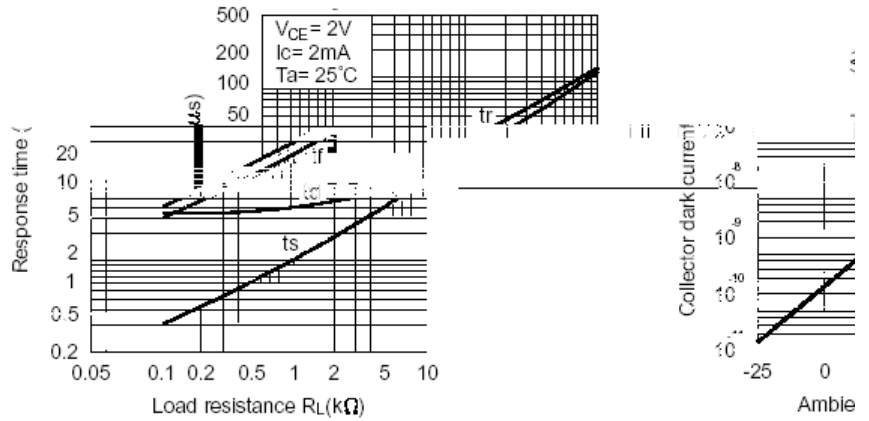
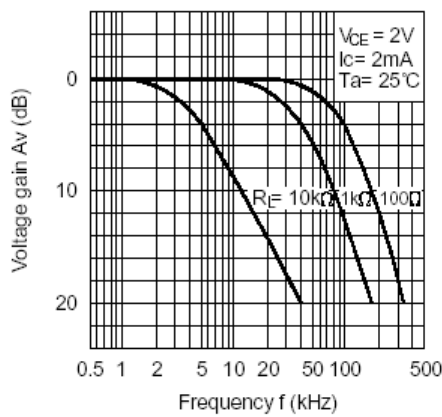
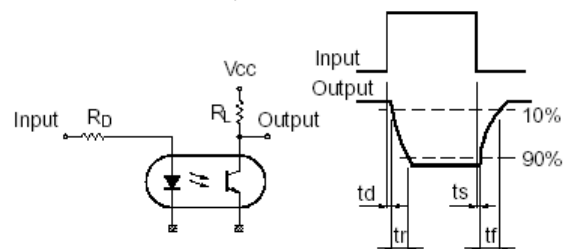


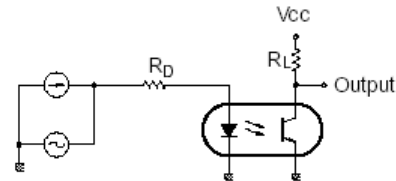
Fig.11 Frequency Response



Test Circuit for Response Time



Test Circuit for Frequency Response



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		MIL-STD-750: 1026 MIL-STD-883: 1005 JIS C 7021 : B-1	I f =50nA 1000	0/20

→ A