● :

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

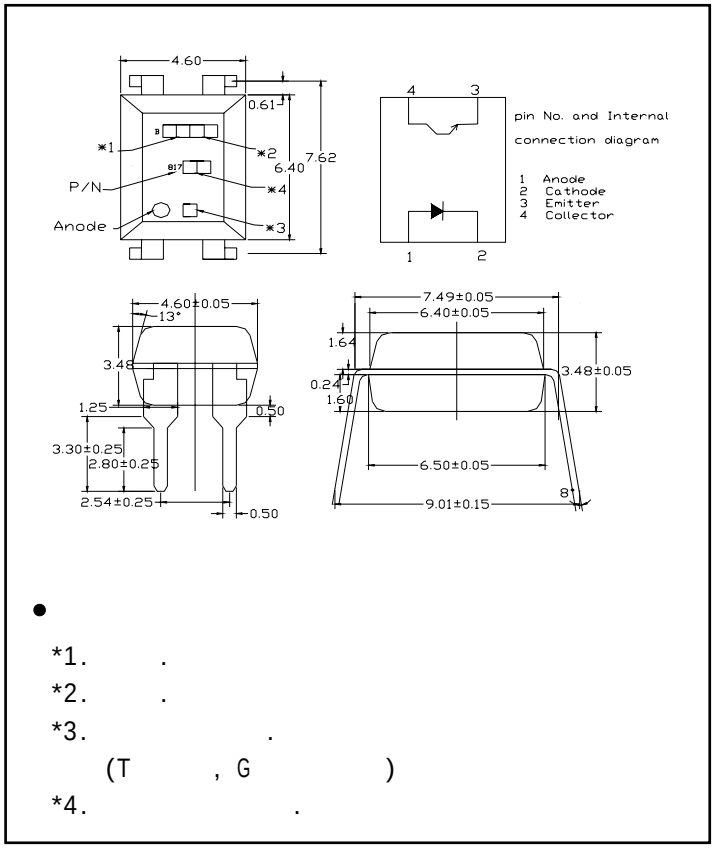
●

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

● :

1. .
2. , .
3. , , .
4. , , .
5. .

●



●

*1. .
*2. .
*3. .
(T , G)
*4. .

● (=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		Tsol	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	μA
		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=10μA 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.	5×10^{10}	1×10^{11}	---	
		C_f	V=0, f=1MHz	---	0.6	1	pF
		f_c	V_{CE}=5V, I_C=2mA R_L=100 , -3dB	---	80	---	kHz
		t_r	V_{CE}=2V, I_C=2mA R_L=100	---	4	18	μs
		t_f		---	3	18	μs

*1 = I_C / I_F × 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 Forword Current vs. Ambient Temperatute

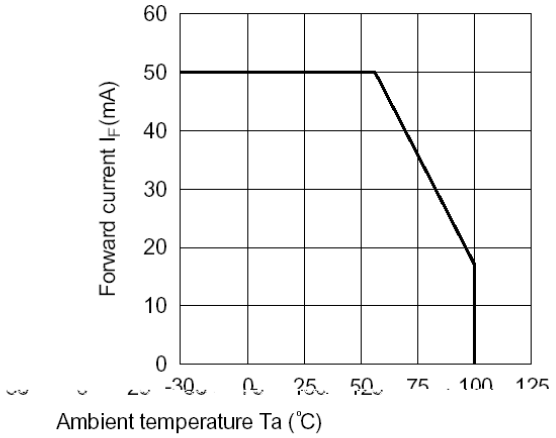
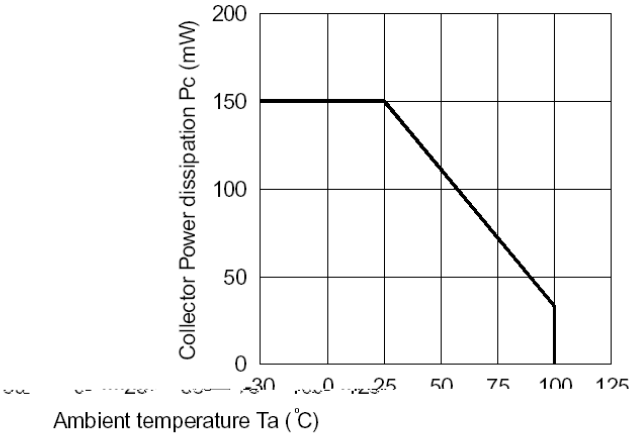


Fig.2 Collector Power Dissiption vs. Ambient Temperature



orward Current vs. Forward oltage

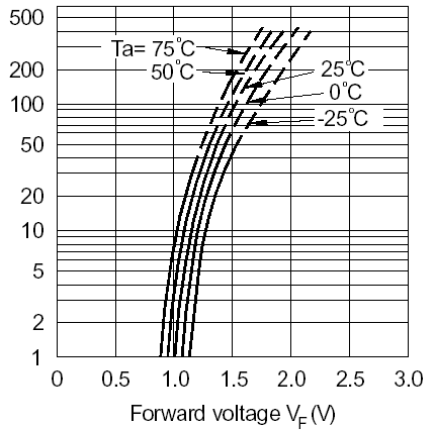


Fig.3 Collector-emitter Saturation Voltage vs. Forward Current

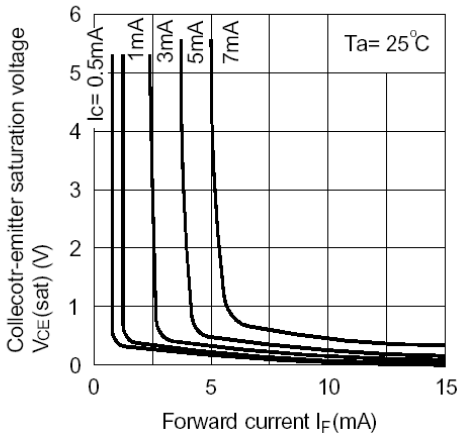


Fig.4 F V

Forward current I_F(mA)

ollector Current vs. ollector-emitter Voltage

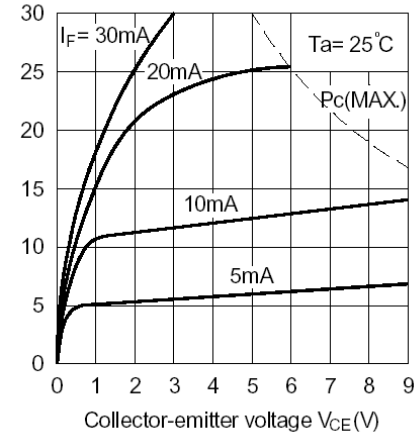


Fig.5 Current Transfer Ratio vs. Forward Current

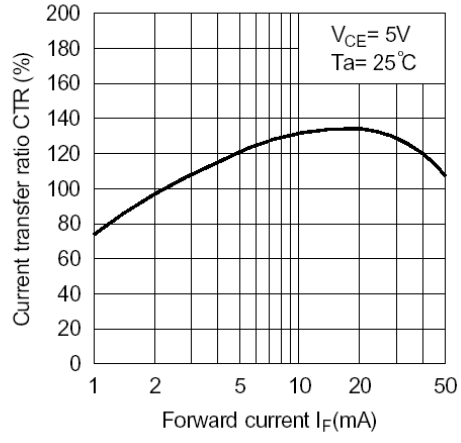


Fig.6 C (

Collector current Ic (mA)

Fig.7 Relative Current Transfer Ratio vs. Ambient Temperature

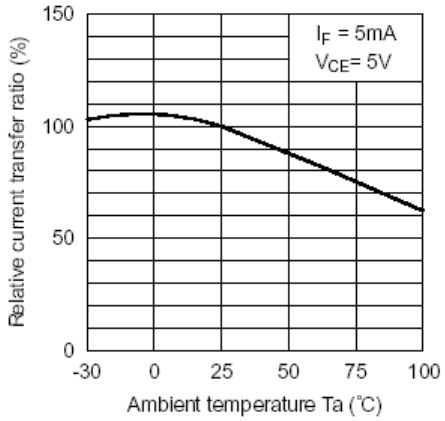


Fig.8 Collector-emitter Saturation Voltage vs. Ambient Temperature

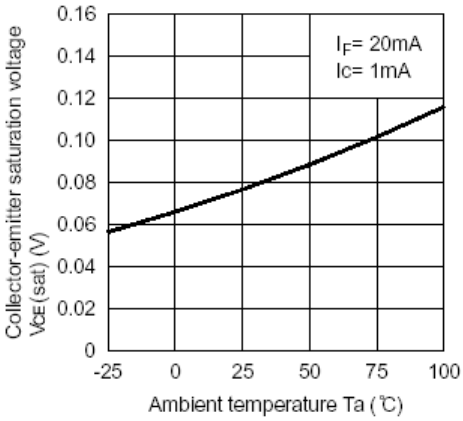


Fig.9 Collector Dark Current vs. Ambient Temperature

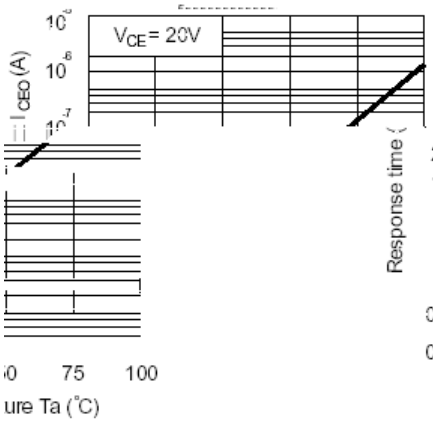
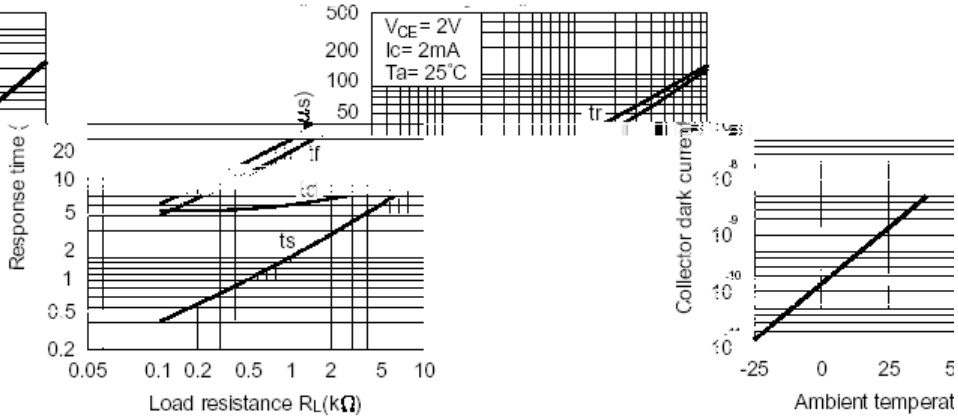
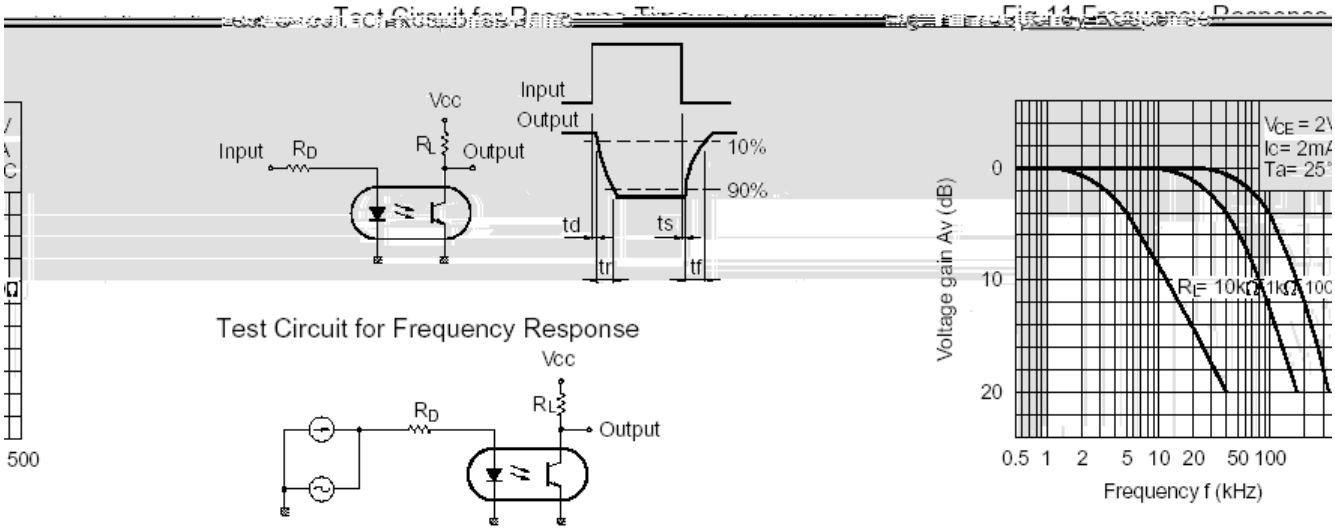


Fig.10 Response Time vs. Load Resistance





●

		MIL-STD-750:1026 MIL-STD-883:1005 JIS C 7021 :B-1	If=50mA 1000	0/20
		JIS C 7021 :B-11	Ta=+85 ±5 , RH=85% PTR=V_{CE} *80% =1000hrs	0/20
		JIS C 7021 :B- 8	Ta=+105 ±5 PTR=V_{CE} =1000hrs	0/20
		MIL-STD-883:1008 JIS C 7021 :B-10	=+125 ±5 =1,000hrs	0/20
		JIS-C-7021 :B-12	=-55 ±5 =1,000hrs	0/20
		JESD 22-A102-B	P=15PSIG, Ta=121 . =100%RH, 48hrs	0/20
		MIL-STD-202:107D MIL-STD-750:1051 MIL-STD-883:1010 JIS C 7021 :A-4	125 ~ 25 ~ -55 ~ 25 30min 5min 30min 5min =20cycle	0/20
		MIL-STD-202:107D MIL-STD-750:1051 MIL-STD-883:1011	125 ~-55 20min 20min =20cycle	0/20
		MIL-STD-202:201A MIL-STD-750:2031 JIS C 7021 :A-1	260 , 10±1 .	0/20
		MIL-S-883:2003 JIS C 7021 :A-2	235 , 5±1 .	0/20

●

V_F (V)	If=20mA	Over Ux1.0
Ir(uA)	Vr=4V	Over Ux1.0
CTR(%)	If=5mA, V_{CE}=5V	Shift>1.2
$V_{CE(sat)}$	I_F=20mA, I_C= 1mA	Over Ux1.0
BV_{CEO}	I_C=0.1mA, I_F=0	Over Lx1.0
BV_{ECO}	I_E=10μA, I_F=0	Over Lx1.0