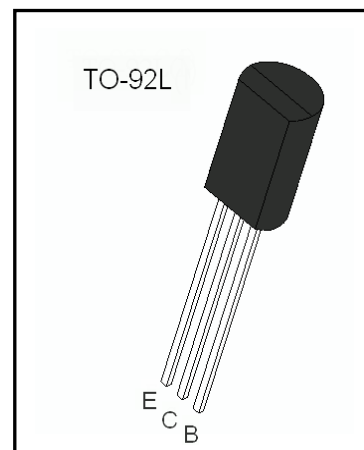


Application

- Low frequency power amplifier
- Complementary pair with 2SD667

Absolute Maximum Ratings Ta=25°C unless otherwise noted

Parameter	Symbol	Value	Unit
Collector-Base Voltage	BV_{CBO}	-120	V
Collector-Emitter Voltage	BV_{CEO}	-100	V
Emitter-Base Voltage	BV_{EBO}	-5	V
Collector Current	I_C	-1	A
Collector Power Dissipation	P_C	0.9	W
Junction Temperature	T_j	150	°C
Storage Temperature	T_{stg}	-55~150	°C

**Electrical Characteristics** Ta=25°C unless otherwise noted

Parameter	Symbol	Conditions	Value			Unit
			Min	Typ	Max	
Collector-base breakdown voltage	BV_{CBO}	$I_C = -100\mu A, I_E = 0$	-120			V
Collector-emitter breakdown voltage	BV_{CEO}	$I_C = -1mA, I_B = 0$	-100			V
Emitter-base breakdown voltage	BV_{EBO}	$I_E = -100\mu A, I_C = 0$	-5			V
Collector cut-off current	I_{CBO}	$V_{CB} = -100V, I_E = 0$			1.0	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = -5V, I_C = 0$			1.0	μA
DC current gain	h_{FE1}	$V_{CE} = -5V, I_C = -150mA$	60		320	
	h_{FE2}	$V_{CE} = -5V, I_C = -500mA$	30			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -500mA, I_B = -50mA$			0.5	V
Base-emitter voltage (on)	$V_{BE(sat)}$	$I_C = -500mA, I_B = -50mA$			1.2	V
Transition frequency	f_T	$V_{CE} = -5V, I_C = -150mA$	50			MHz

 h_{FE1} Classification

Classification	R	O	Y
h_{FE1}	60-120	100-200	160-320

Typical Characteristics

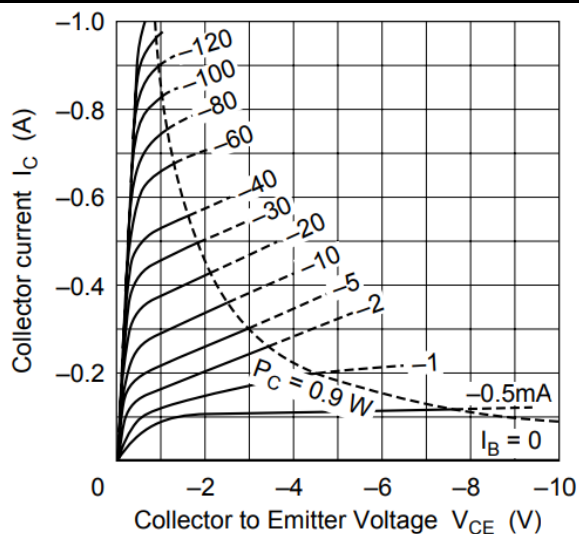


Fig.1 Static characteristics

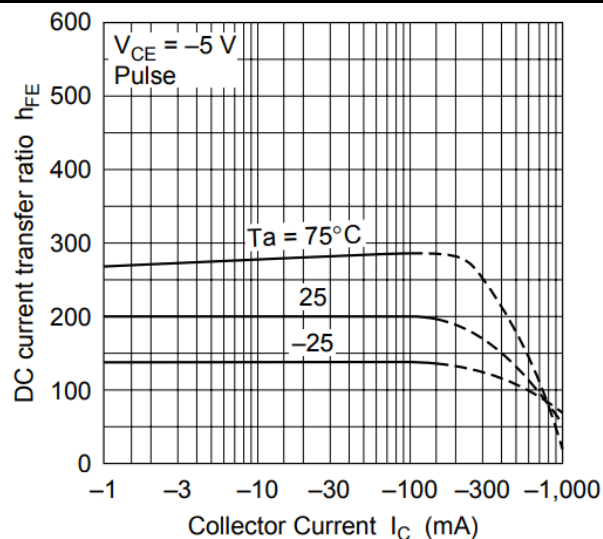


Fig.5 DC Current Gain

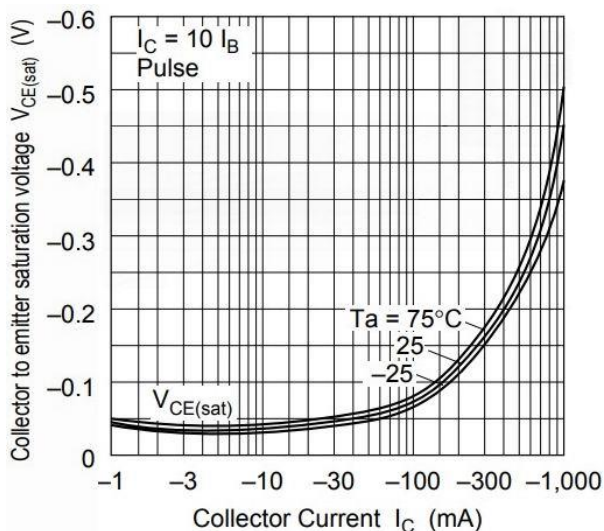


Fig.3 Saturation voltage

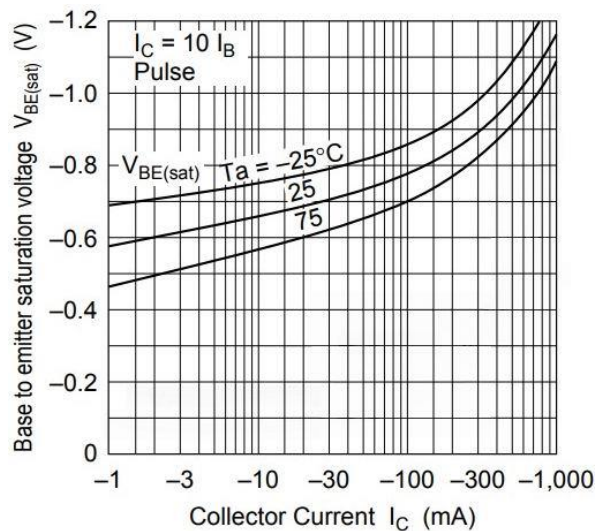


Fig.4 Base-Emitter on voltage

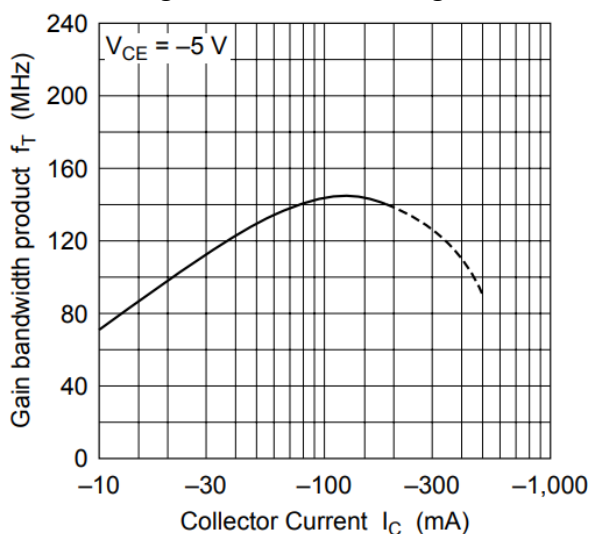


Fig.5 Current Gain-Bandwidth Product

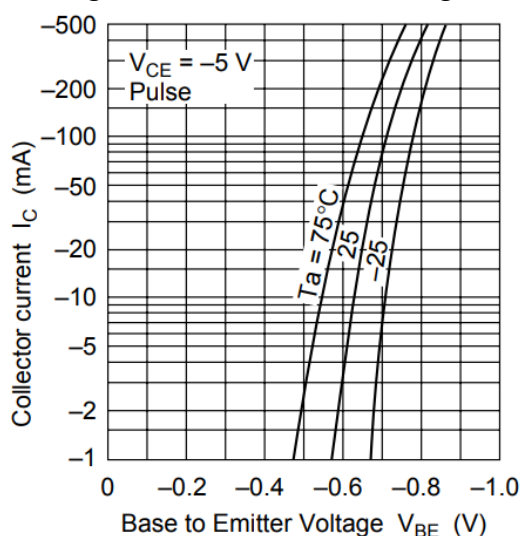


Fig.6 Typical Transfer Characteristics

Package Dimensions (Unit:mm)