



### ■ ABSOLUTE MAXIMUM RATING (Ta=25 )

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	$V_{CBO}$	50	V
Collector-Emitter Voltage	$V_{CEO}$	50	V
Emitter-Base Voltage	$V_{EBO}$	5	V
Collector Current	$I_C$	100	mA
Total Power Dissipation	$P_D$	150(Note1)	mW
Junction Temperature	$T_J$	+150	
Storage Temperature	$T_{STG}$	-40 ~ +150	

Note 1. \*120mW per element must not be exceeded.

2. Absolute maximum ratings are those values beyond which the device could be permanently damaged.

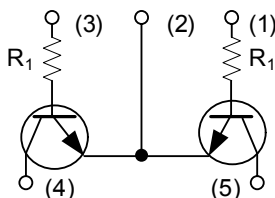
Absolute maximum ratings are stress ratings only and functional device operation is not implied.

### ■ ELECTRICAL CHARACTERISTICS (Ta=25 )

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	$BV_{CBO}$	$I_C=50\mu A$	50			V
Collector-Emitter Breakdown Voltage	$BV_{CEO}$	$I_C=1mA$	50			V
Emitter-Base Breakdown Voltage	$BV_{EBO}$	$I_E=1mA$	5			V
Current Cutoff Current	$I_{CBO}$	$V_{CB}=50V$			0.5	$\mu A$
Emitter Cutoff Current	$I_{EBO}$	$V_{EB}=4V$			0.5	$\mu A$
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	$I_C/I_B=10mA/1mA$			0.3	V
DC Current Transfer Ratio	$h_{FE}$	$V_{CE}=5V, I_C=1mA$	100	250	600	
Transition Frequency	$f_T$	$V_{CE}=10V, I_E=-5mA, f=100MHz^*$		250		MHz
Input Resistance	$R_i$		7	10	13	K $\Omega$

Note \* Transition frequency of the device.

### ■ EQUIVALENT CIRCUIT



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