

SANYO	No.572D	2SA1016,1016K/2SC2362, 2362K PNP/NPN Epitaxial Planar Silicon Transistors High-Voltage Low-Noise Amp Applications
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(): 2SA1016, 1016K

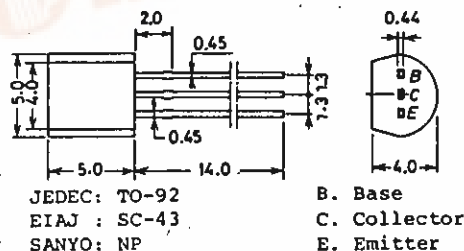
Absolute Maximum Ratings at $T_a=25^\circ\text{C}$		2SA1016, 2SC2362	2SA1016K, 2SC2362K	unit
Collector to Base Voltage	V_{CB0}	(-) 120	(-) 150	V
Collector to Emitter Voltage	V_{CE0}	(-) 100	(-) 120	V
Emitter to Base Voltage	V_{EBO}		(-) 5	V
Collector Current	I_C		(-) 50	mA
Collector Current(Pulse)	I_{CP}		(-) 100	mA
Collector Dissipation	P_C		400	mW
Junction Temperature	T_j		125	$^\circ\text{C}$
Storage Temperature	T_{stg}		-55 to +125	$^\circ\text{C}$

Electrical Characteristics at $T_a=25^\circ\text{C}$		min	typ	max	unit
Collector Cutoff Current	I_{CBO}	$V_{CB}=(-)80\text{V}, I_E=0$		(-) 1.0	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=(-)4\text{V}, I_C=0$		(-) 1.0	μA
DC Current Gain	h_{FE}	$V_{CE}=(-)6\text{V}, I_C=(-)1\text{mA}$	160*	960*	
Gain-Bandwidth Product	f_T	$V_{CE}=(-)6\text{V}, I_C=(-)1\text{mA}$		(110)	MHz
Output Capacitance	C_{ob}	$V_{CB}=(-)10\text{V}, f=1\text{MHz}$		(2.2)	pF
				1.8	
C-E Saturation Voltage	$V_{CE(sat)}$	$I_C=(-)10\text{mA}, I_B=(-)1\text{mA}$		(-) 0.5	V
C-B Breakdown Voltage	$V_{(BR)CBO}$	$I_C=(-)10\mu\text{A}, I_E=0$	(-) 120		V
		[A1016, C2362]			
		$I_C=(-)10\mu\text{A}, I_E=0$	(-) 150		V
		[A1016K, C2362K]			
C-E Breakdown Voltage	$V_{(BR)CEO}$	$I_C=(-)1\text{mA}, R_{BE}=\infty$	(-) 100		V
		[A1016, C2362]			
		$I_C=(-)1\text{mA}, R_{BE}=\infty$	(-) 120		V
		[A1016K, C2362K]			
E-B Breakdown Voltage	$V_{(BR)EBO}$	$I_E=(-)10\mu\text{A}, I_C=0$	(-) 5		V
Noise Level	$V_{NO(ave)}$	$V_{CC}=30\text{V}, I_C=1\text{mA}, R_g=56\text{k}\Omega$		35	mV
		$V_G=77\text{dB/1kHz}$			
Noise Peak Level	$V_{NO(peak)}$	" "	" "	200	mV

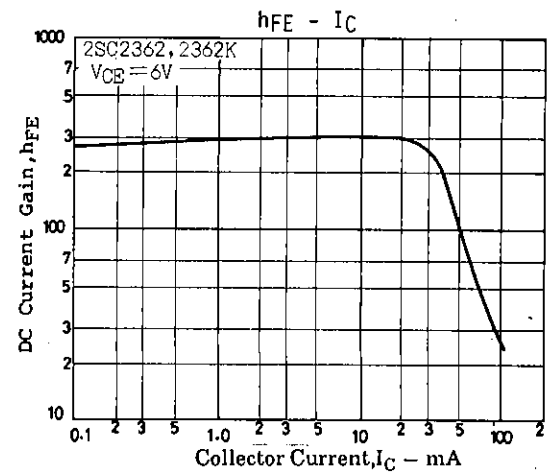
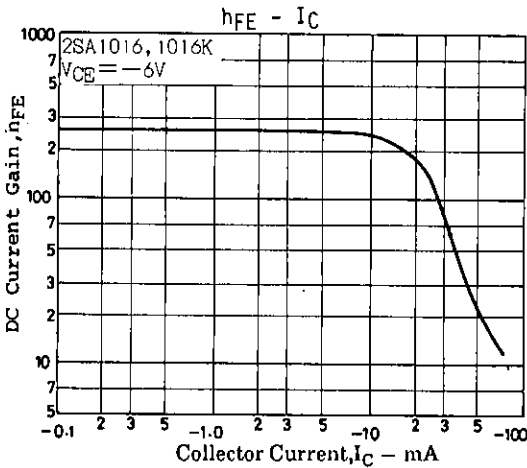
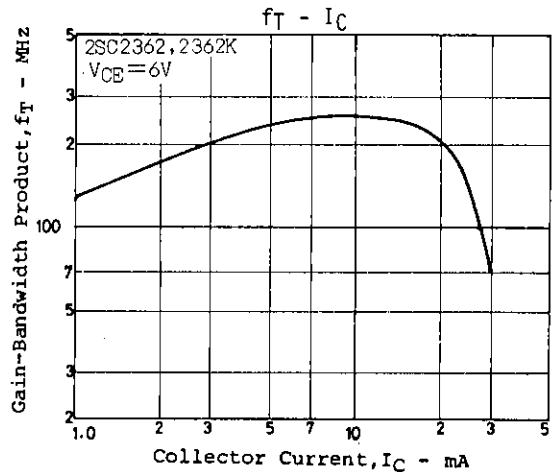
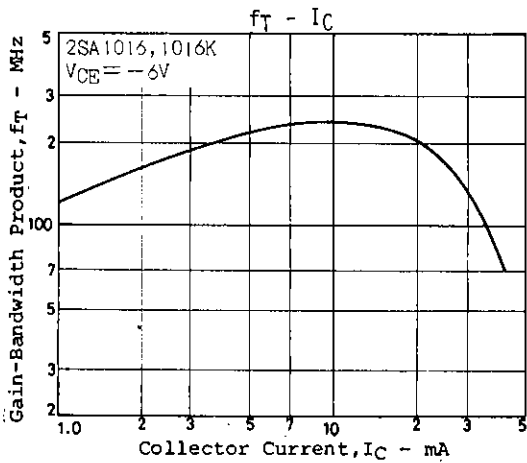
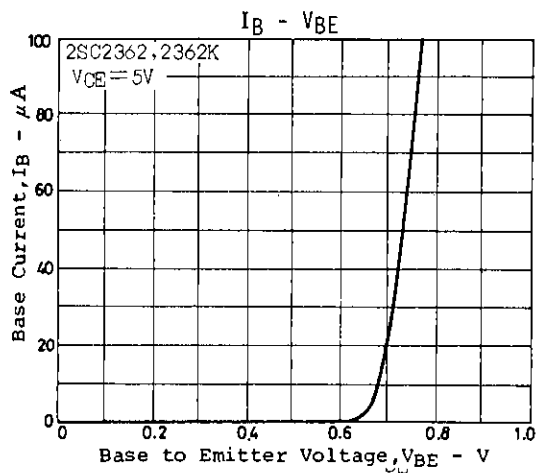
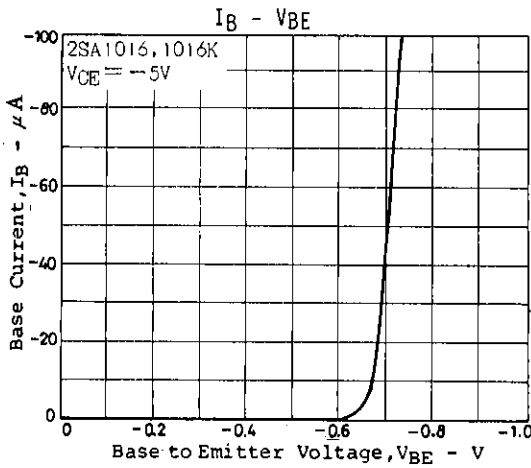
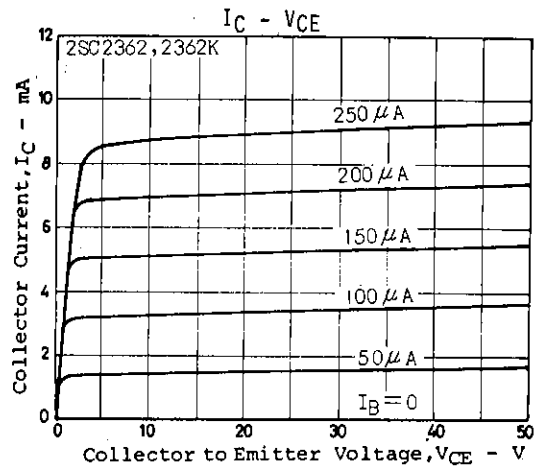
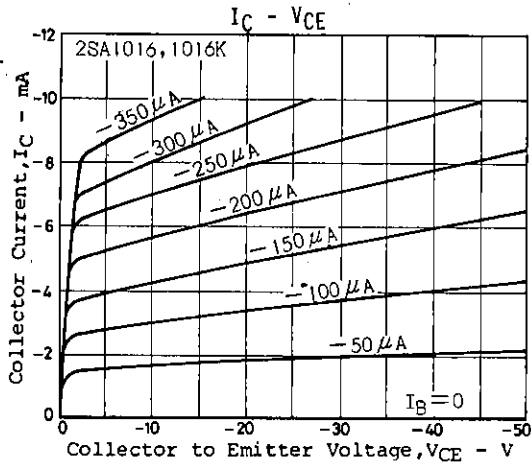
* The 2SA1016,K / 2SC2362,K are classified by 1mA h_{FE} as follows :

160	F	320	280	G	560	480	H	960
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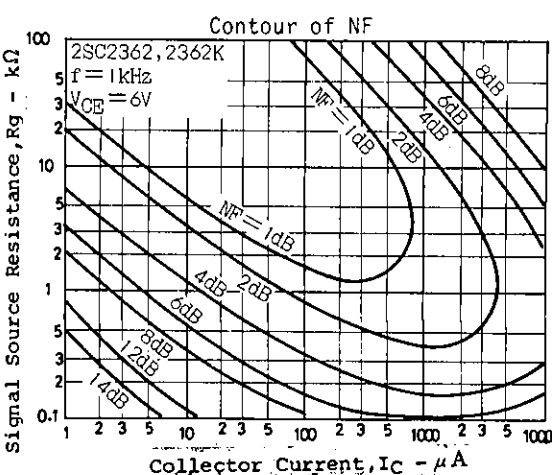
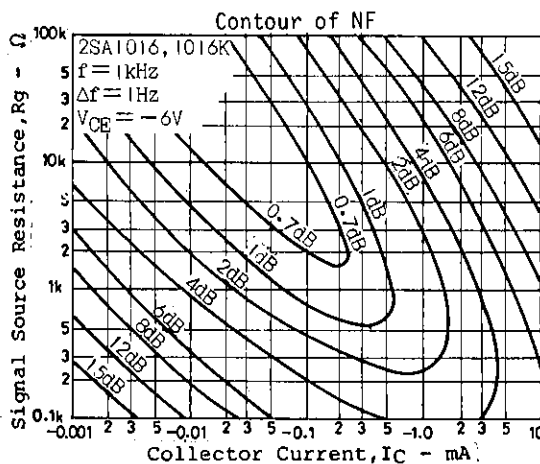
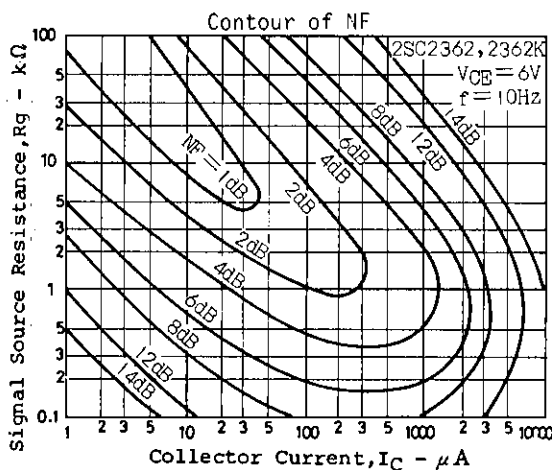
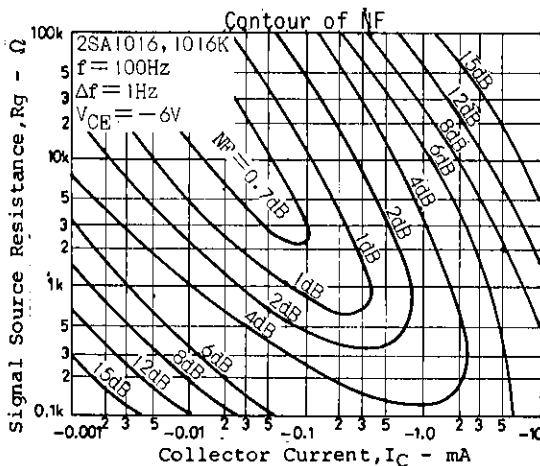
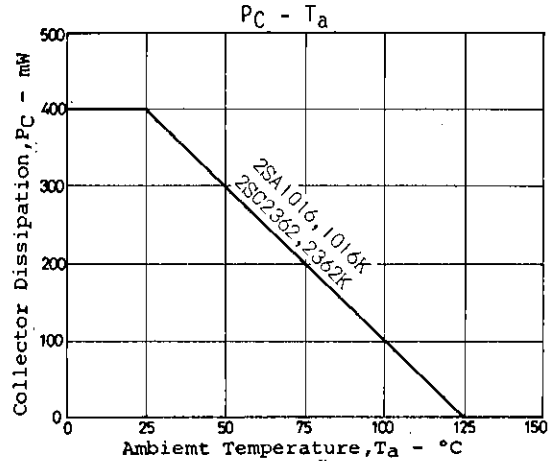
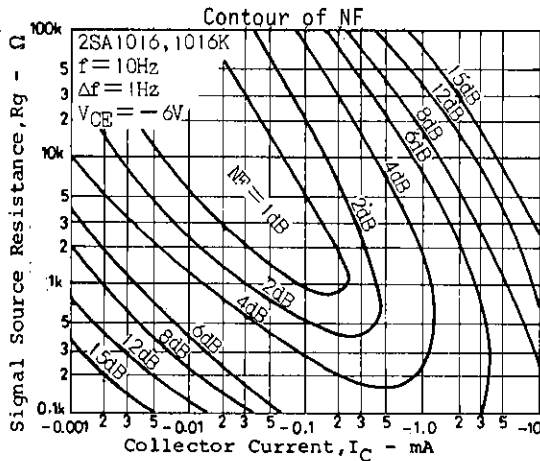
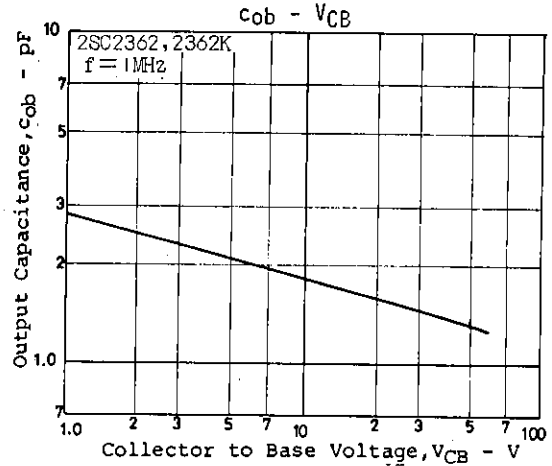
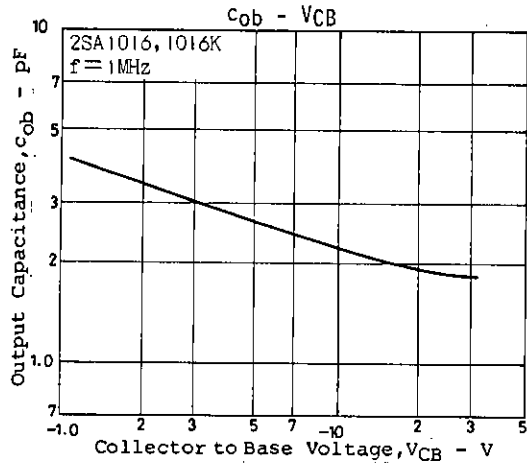
Package Dimensions
(unit: mm) 2003A



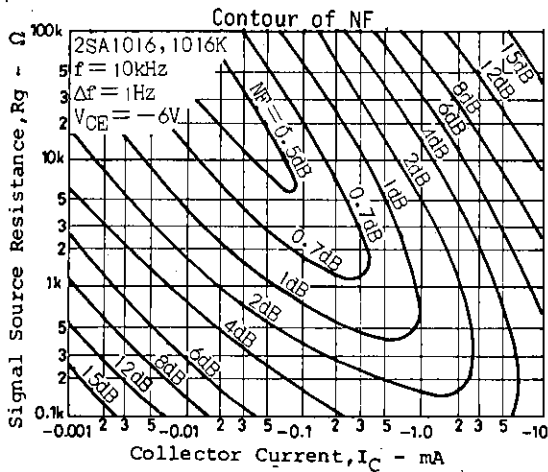
2SA1016, 1016K/2SC2362, 2362K



2SA1016, 1016K/2SC2362, 2362K



2SA1016, 1016K/2SA2362, 2362K



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