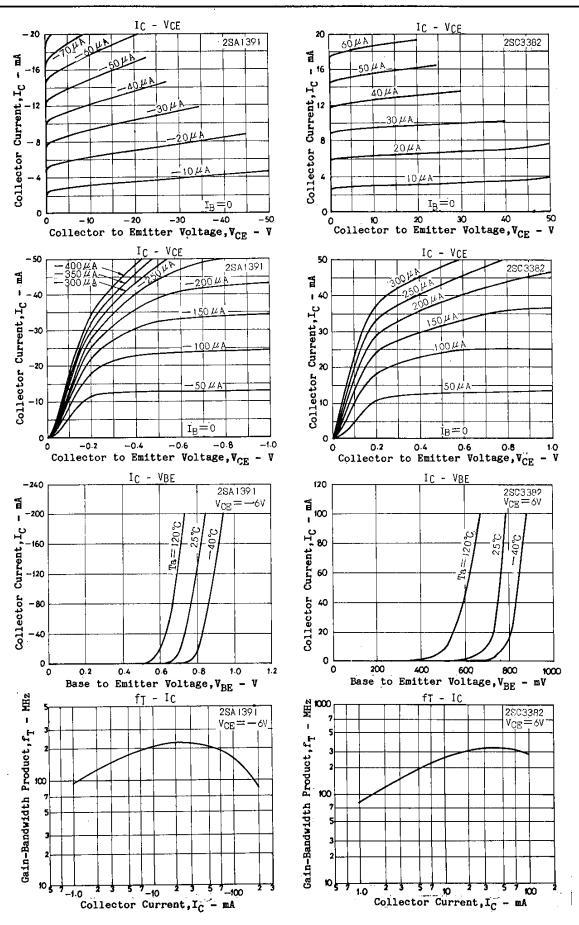
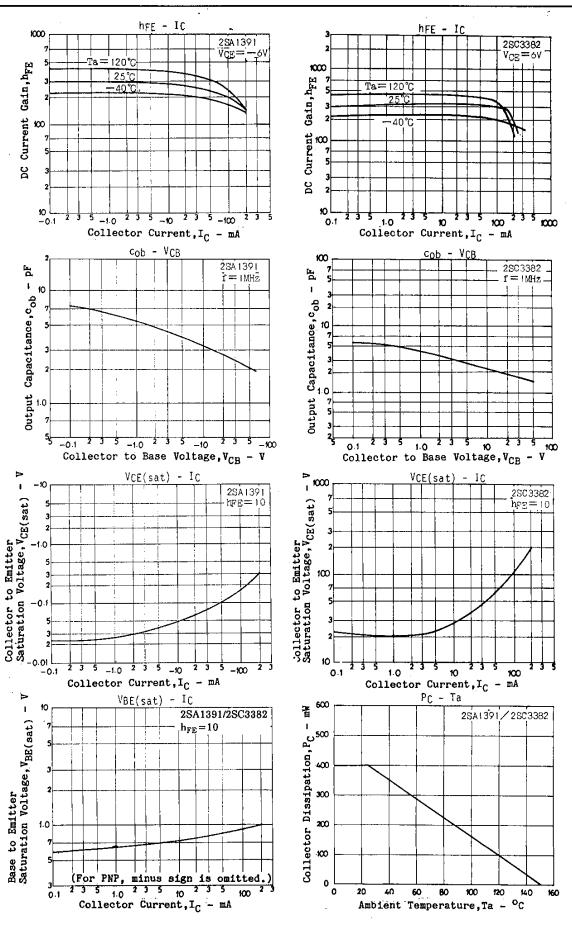
No.1942A	2SA1391/2SC338		<u>/2SC3382</u>
SANYO	//	PNP/ NPN Epitaxial Planar Silicon Transistor Low-Noise AF Amp Applications	
Features . Adoption of FBET proces . AF amp . Low-noise use	38		
( ): 2SA1391 Absolute Maximum Ratings at	; Ta=25 <sup>0</sup> C		unit
Collector to Base Voltage		(-)6	D V
Collector to Emitter Volt	age V <sub>CEO</sub>	(-)5	V C
Emitter to Base Voltage	VEBO	(-)(	5 V
Collector Current	IC	(-)20	) mA
Collector Current(Pulse)	ICP	(-)40	) mA
Collector Dissipation	PC	40	<u> </u>
Junction Temperature	Tj.	15	~
Storage Temperature	Tstg	-55 to +150	o °c
Electrical Characteristics	at Ta=25 <sup>0</sup> C	m	in typ max u
Collector Cutoff Current	I <sub>CBO</sub>		(-)0.1
Emitter Cutoff Current	I <sub>EB0</sub>	$V_{CB}=(-)40V, I_{E}=0$ $V_{EB}=(-)5V, I_{C}=0$	(-)0.1
DC Current Gain	<sup>h</sup> FE(1)	$V_{CE} = (-)6V, I_{C} = (-)1mA$ 10	00 <b>#</b> 560 <b>#</b>
	<sup>n</sup> FE(2)	$V_{CE} = (-)6V, I_{C} = (-)0.1 \text{mA}$	70
Gain-Bandwidth Product	f <sub>T</sub>	$V_{CE}^{OL} = (-)6V, I_{C}^{OL} = (-)10mA$	250 I
C-E Saturation Voltage	Variation	I <sub>C</sub> =(-)100mA,I <sub>B</sub> =(-)10mA	(200) I (-)0.3
B-E Saturation Voltage	VCE(sat)	$I_{C}^{-(-)100mA}, I_{B}^{-(-)10mA}$	(-)1.0
Output Capacitance	V <sub>BE</sub> (sat) c <sub>ob</sub>	$V_{CB} = (-)6V, f = 1MHz$	2.7
	- OD	-0B · · · · · · · · · · · · · · · · · · ·	(3.7)
C-B Breakdown Voltage	V(BR)CBO	$I_{C}=10\mu A, I_{E}=0$ (-)	
C-E Breakdown Voltage	V(BR)CEO	$I_{C} = (-) 1 \text{mA}, R_{BE} = \infty$ (-)!	
E-B Breakdown Voltage	V(BR)EBO	$I_{E} = (-) 10 \mu A, I_{C} = 0$ (-	
Noise Level	V <sub>NO(ave)</sub>	$V_{CC}^{=}(-)30V, I_{C}^{=}(-)1mA,$ Rg=56k $\Omega$ , VG=77dB/1kHz	40 (35)
Noise Peak Level	VNO(Deak)	$V_{CC} = (-)30V, I_{C} = (-)1mA,$	280
	no(peak)	V <sub>CC</sub> =(-)30V,I <sub>C</sub> =(-)1mA, Rg=56kΩ ,VG=77dB/1kHz	(200)
#. mb. 0014004/000000			
*: The 2SA1391/2SC3382 ar			
100 R 200 140 S	280 20	<u>0 T 400   280 U 560</u>	
Noise Test Circuit		Package Dimensions 2003A (unit: mm)	
T.U.T amp Filter cir	euit	2.0	0.44
		2	#
Rg ₹ VG = 36.5 dB VG = 40.5 dB			
Rg ∓ VG = 36.5 dB VG ≕ 40.5 dB 56 k() (a\1kHz)	C.R.0		
777	L]		+4.0+
		JEDEC: TO-92	B. Base
		EIAJ : SC-43	C. Collector

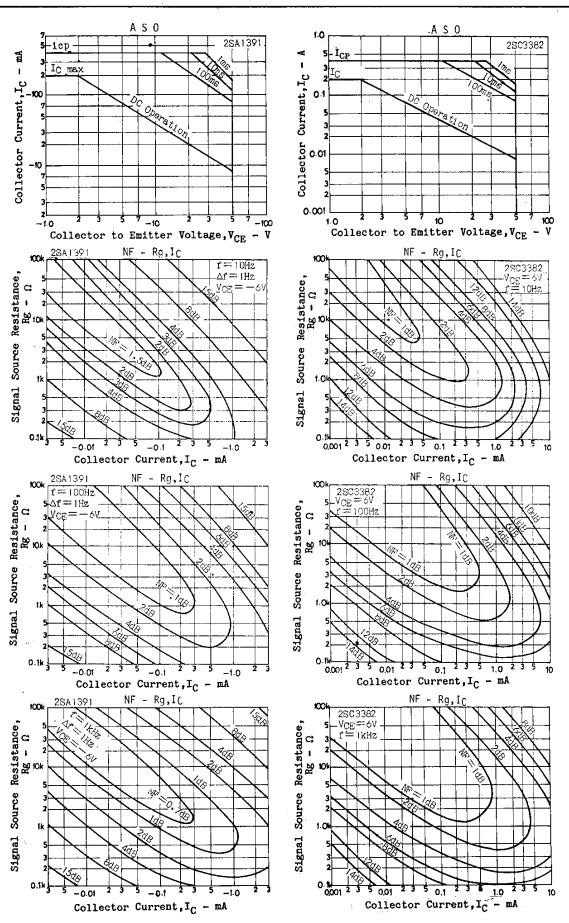
SANYO Electric Co., Ltd. Semiconductor Business Headquarters TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110 JAPAN

Ordering number: EN 1942A

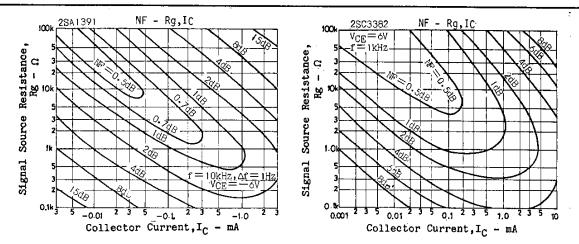
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