2SC 3199 2SC 3199

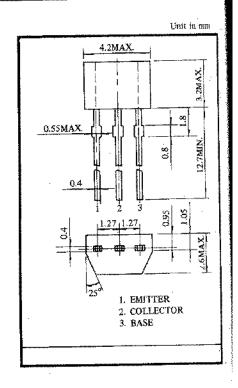
SILICON NPN TRANSISTOR EPITAXIAL PLANAR TYPE (PCT PROCESS)

APPLICATAIONS

- Audio Amplifier Applications.
- AM Amplifier Applications.

FEATURES

- High Current Capability: Ic=150mA(Max.).
- High DC Current Gain: hr=70~700.
- Excellent h_{FE} Linearity: $h_{FE}(0.1 \text{mA})/h_{FE}(2 \text{mA}) = 0.95 \text{ (Typ.)}$.
- Low Noise: NF=1dB(Typ.), 10dB(Max.).
- Low Nosise 2SA3199 NF=1dB(TYP), 10dB(Max). 2SA3199© NF=0.2dB(TYP), 3dB(Max.)
- Complementary to 2SA1267/2SA1267 ①.
- · Small Package.



■ MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V _{СВО}	50	V
Collector-Emitter Voltage	V _{ceo}	50	V
Emitter-Base Voltage	V _{ЕВО}	5	V
Collector Current	Ic	150	mA

CHARACTERISTIC	SYMBOL	RATING	UNIT
Emitter Current	I.E.	150	mΑ
Collector Power Dissipation	Pc	200	m₩
Junction Temperature	T_{j}	125	r
Storge Temperature Range	Tsig	-55~125	٣

■ ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERI	STIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAZ.	.UNIT
Collector Cut-off Curre	ent	Ісво	$V_{cs}=50V$, $I_{\epsilon}=0$			0.1	μA
Emitter Cut-off Current I _{EBO} DC Current Gain h _{FEINOTE}		I _{E80}	$V_{EB} = 5V, I_c = 0$	70		700	5 V
		h _{FE:Note:}	V _{cε} =6V, I _c =2mA				
Collector-Emitter Satur	ation Voltage	V _{CE(Sat)}	$I_c = 100 \text{mA}, I_B = 10 \text{mA}$	- 0.1 0.2		0.25	
Transition Frequency	ansition Frequency		V _{ce} =10V, l _c =1mA	80	2.0	3.5	
Collector Output Capacitance		Соь	$V_{cB}=10V$, $I_{E}=0$, $f=1MHz$				
**	2SC3199	NF	$V_{cs}=6V, I_{c}=0.1mA$		1	10	dB
Noise Figure .	2SC3199©		f=1kHz, Rg=10kΩ		0.2	3	4.0

NOTE: According to h_{FE} Classified as follows.

	Λ	70~140	٧	120~240	GR	200~400	BL.	350~700
-	V		+					

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