

# 2SA1193(K)

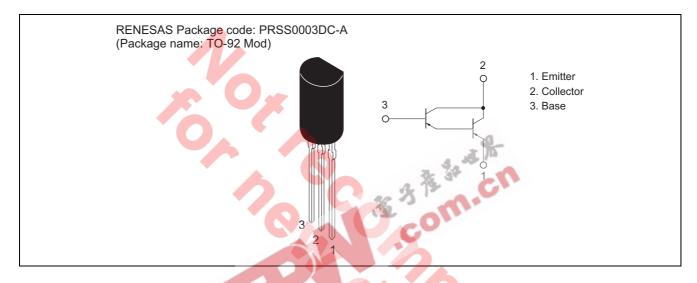
## Silicon PNP Epitaxial, Darlington

REJ03G0641-0200 (Previous ADE-208-1013) Rev.2.00 Aug.10.2005

#### **Application**

High gain amplifier

#### **Outline**



#### **Absolute Maximum Ratings**

 $(Ta = 25^{\circ}C)$ 

Item	Symbol	Ratings	Unit
Collector to base voltage	$V_{CBO}$	-60	V
Collector to emitter voltage	$V_{CEO}$	-60	V
Emitter to base voltage	$V_{EBO}$	-7	V
Collector current	I <sub>C</sub>	-0.5	А
Collector peak current	i <sub>C(peak)</sub>	-1.0	А
Collector power dissipation	Pc	0.9	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

### **Electrical Characteristics**

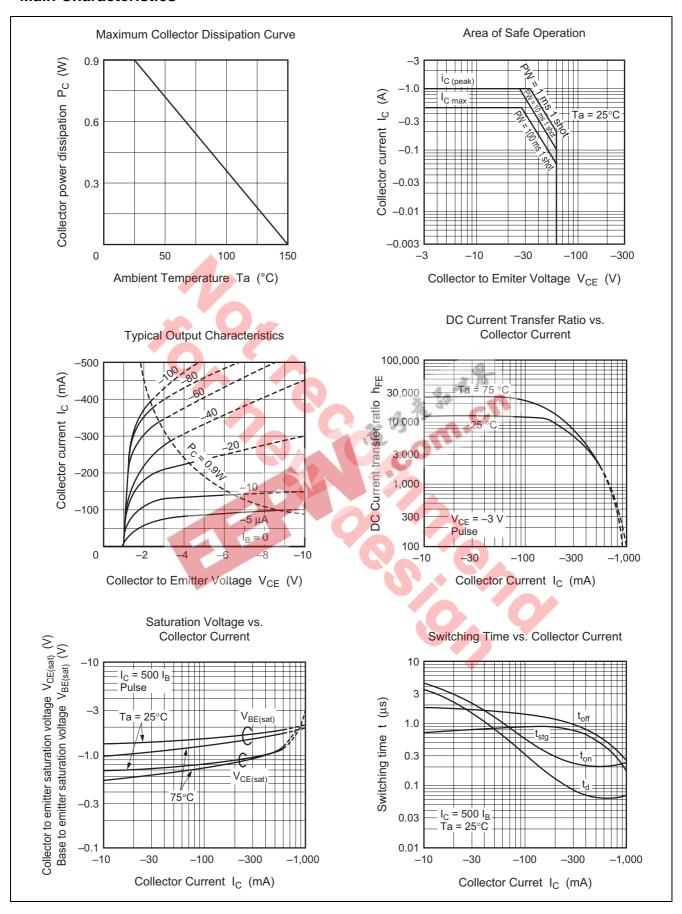
 $(Ta = 25^{\circ}C)$ 

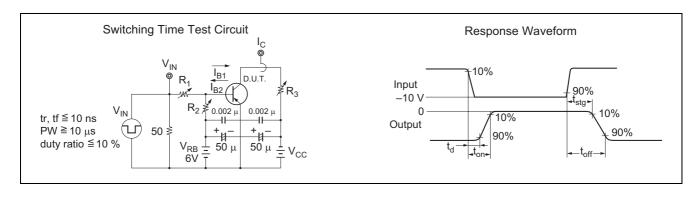
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	-60	_	_	V	$I_C = -1 \text{ mA}, R_{BE} = \infty$
Collector cutoff current	I <sub>CBO</sub>	_	_	-1.0	μΑ	$V_{CB} = -60 \text{ V}, I_E = 0$
Emitter cutoff current	I <sub>EBO</sub>	_	_	-1.0	μΑ	$V_{EB} = -7 \text{ V}, I_C = 0$
DC current transfer ratio	h <sub>FE</sub>	2000	_	_		$V_{CE} = -3 \text{ V}, I_{C} = -250 \text{ mA}*^{1}$
Collector to emitter saturation voltage	$V_{CE(sat)}$	_	_	-1.5	V	$I_C = -250 \text{ mA}, I_B = -0.5 \text{ mA*}^1$
Base to emitter saturation voltage	V <sub>BE(sat)</sub>	_	_	-2.0	V	
Turn on time	ton	_	0.3	_	μs	$I_C = -250 \text{ mA}$
Turn off time	t <sub>off</sub>	_	0.9	_	μs	$I_{B1} = -I_{B2} = -0.5 \text{ mA}$

Note: 1. Pulse test



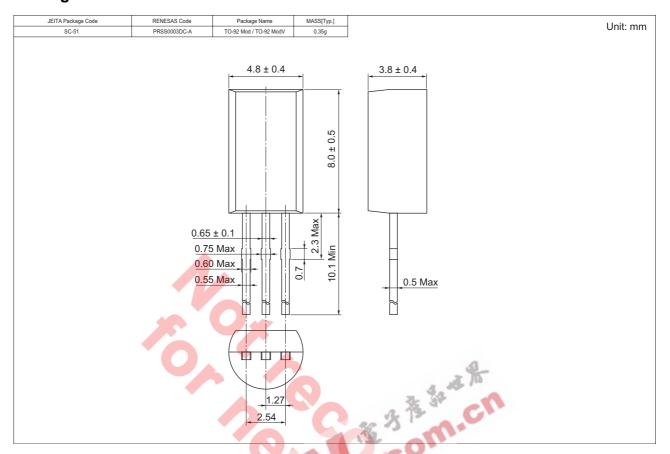
#### **Main Characteristics**







#### **Package Dimensions**



### **Ordering Information**

Part Name	Quantity	Shipping Container
2SA1193KTZ-E	2500	Hold Box, Radial Taping

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