

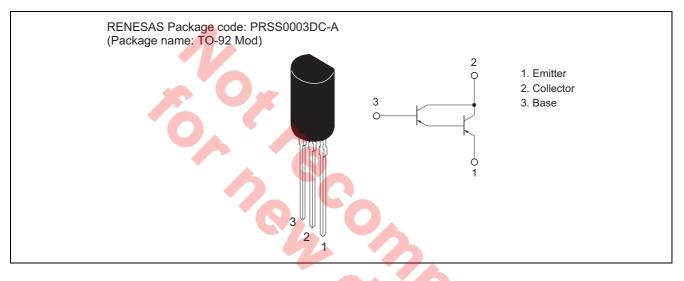
2SA1193(K) Silicon PNP Epitaxial, Darlington

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

Application

High gain amplifier

Outline



Absolute Maximum Ratings

			$(Ta = 25^{\circ}C)$
ltem	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	Ι _C	-0.5	А
Collector peak current	i _{C(peak)}	-1.0	А
Collector power dissipation	Pc	0.9	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C



Electrical Characteristics

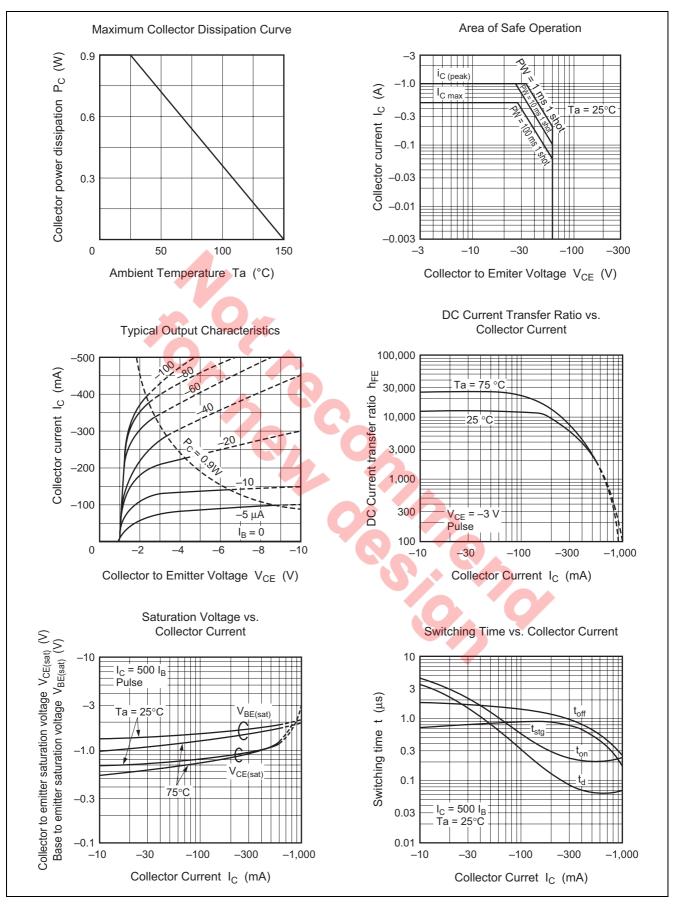
						$(Ta = 25^{\circ}C)$
ltem	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to emitter breakdown voltage	V _{(BR)CEO}	-60	_	—	V	$I_C = -1 \text{ mA}, R_{BE} = \infty$
Collector cutoff current	I _{CBO}	—	_	-1.0	μΑ	$V_{CB} = -60 \text{ V}, I_E = 0$
Emitter cutoff current	I _{EBO}	_	_	-1.0	μA	$V_{EB} = -7 V, I_C = 0$
DC current transfer ratio	h _{FE}	2000	_	—		$V_{CE} = -3 V$, $I_C = -250 mA^{*1}$
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 _{BE(sat)}	_	_	-2.0	V	
Turn on time	t _{on}	_	0.3	—	μs	I _C = -250 mA
Turn off time	t _{off}	—	0.9	—	μs	$I_{B1} = -I_{B2} = -0.5 \text{ mA}$

Note: 1. Pulse test

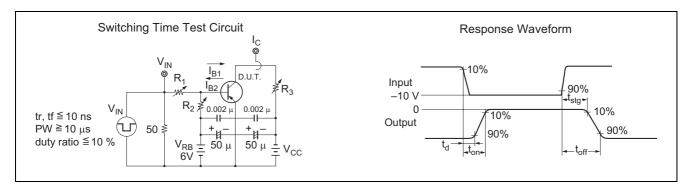




Main Characteristics



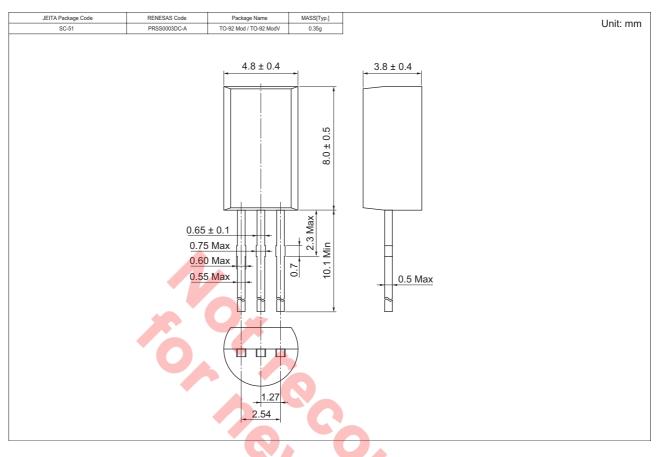








Package Dimensions



Ordering Information

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

Note: For some grades, production may be terminated. Please contact the Renesas sales office to check the state of production before ordering the product.



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