



2SC1515(K)

Silicon NPN Triple Diffused

REJ03G0689-0200
(Previous ADE-208-1055)
Rev.2.00
Aug.10.2005

Application

High voltage switching

Outline

RENESAS Package code: PRSS0003DA-A
(Package name: TO-92 (1))



1. Emitter
2. Collector
3. Base

Absolute Maximum Ratings

(Ta = 25°C)

Item	Symbol	Ratings	Unit
Collector to base voltage	V _{CBO}	200	V
Collector to emitter voltage	V _{CES}	200	V
	V _{CEO}	150	V
Emitter to base voltage	V _{EBO}	5	V
Collector current	I _C	50	mA
Collector power dissipation	P _C	200	mW
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

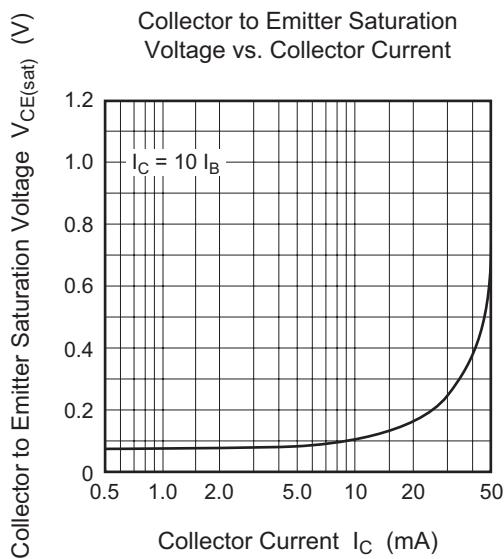
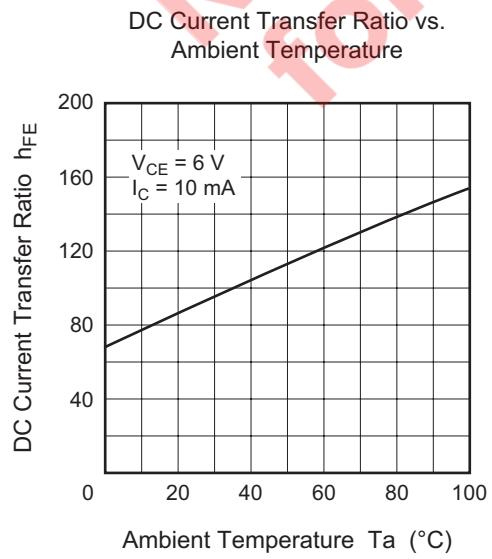
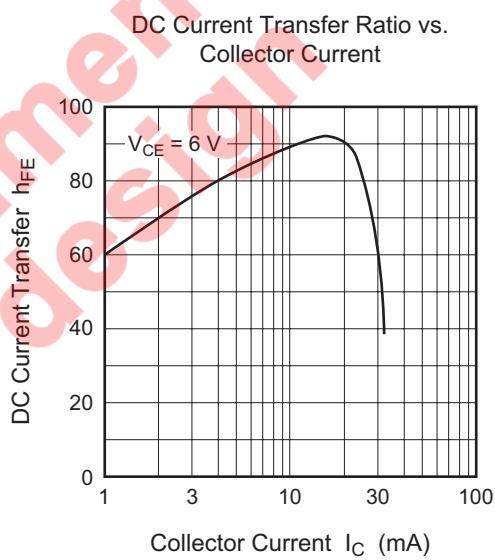
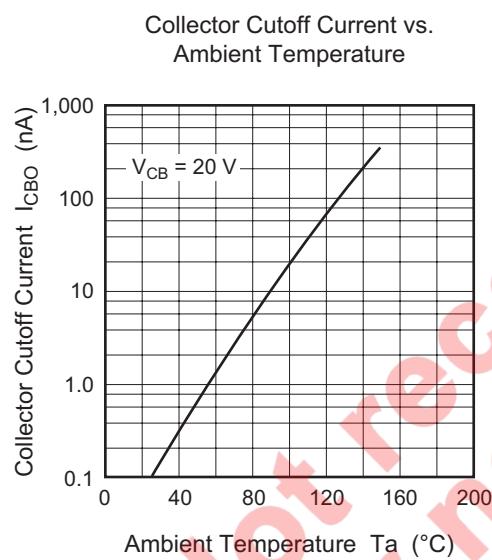
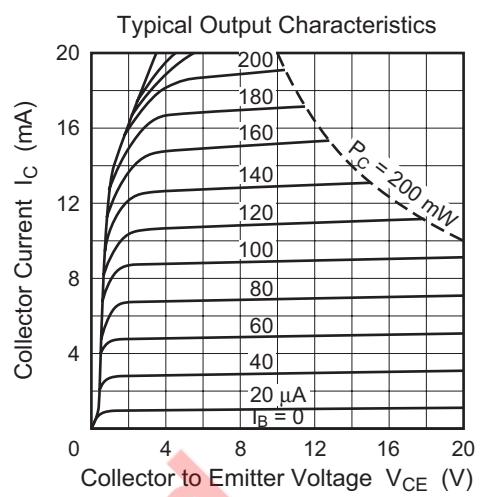
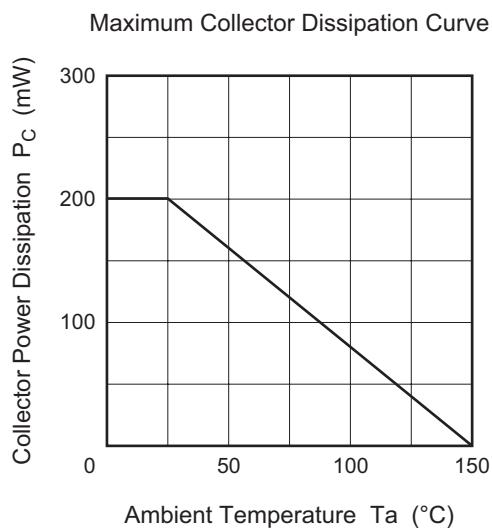
Electrical Characteristics

(Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test conditions
Collector to emitter breakdown voltage	V _{(BR)CES}	200	—	—	V	I _C = 10 µA, R _{BE} = 0
	V _{(BR)CEO}	150	—	—	V	I _C = 1 mA, R _{BE} = ∞
Emitter to base breakdown voltage	V _{(BR)EBO}	5	—	—	V	I _E = 10 µA, I _C = 0
Collector cutoff current	I _{CBO}	—	—	0.1	µA	V _{CB} = 20 V, I _E = 0
DC current transfer ratio	h _{FE}	30	—	300		V _{CE} = 6 V, I _C = 10 mA
Collector to emitter saturation voltage	V _{CE(sat)}	—	—	1.0	V	I _C = 10 mA, I _B = 1 mA
Base to emitter saturation voltage	V _{BE(sat)}	—	—	1.5	V	I _C = 10 mA, I _B = 1 mA
Gain bandwidth product	f _T	60	—	—	MHz	V _{CE} = 6 V, I _C = 10 mA
Collector output capacitance	C _{ob}	—	—	10	pF	V _{CB} = 6 V, I _E = 0, f = 1 MHz

Not recommend
for new design

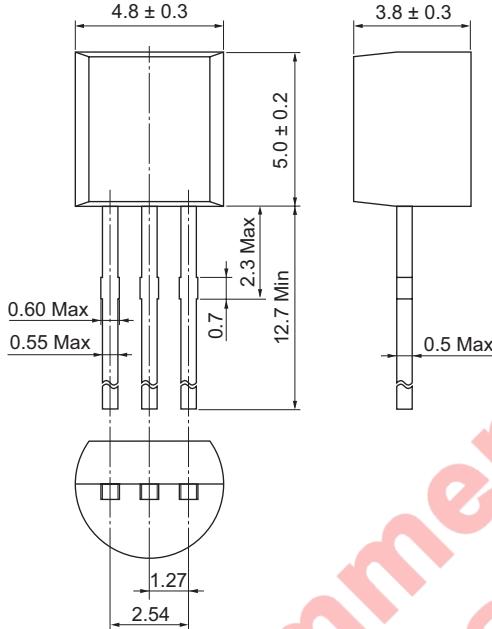
Main Characteristics



2SC1515(K)

Package Dimensions

JEITA Package Code	RENESAS Code	Package Name	MASS[Typ.]	Unit: mm
SC-43A	PRSS0003DA-A	TO-92(1) / TO-92(1)V	0.25g	



Ordering Information

Part Name	Quantity	Shipping Container
2SC1515KTZ	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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