2SC3580

FOR HIGH CURRENT DRIVE APPLICATION SILICON NPN EPITAXIAL TYPE

DESCRIPTION

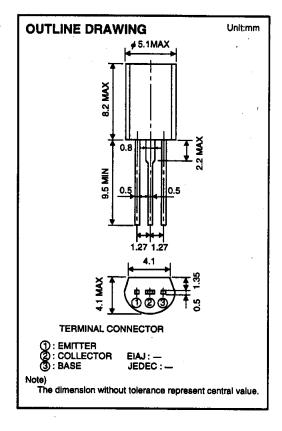
.2SC3580 is a silicon NPN epitaxial type transistor. Complementary with 2SA1398.

FEATURE

- ●High collector current I cM=1A
- ●High gain band width product ft=180MHz typ
- ●Low collector to emitter saturation voltage VcE(sat)=0.2V typ
- ●Excellent linearity of DC forward current gain

APPLICATION

Small type motor drive, relay drive, power supply application.



MAXIMUM RATINGS (Ta=25°C)

Symbol	Parameter	Ratings	Unit
Vсво	Collector to Base voltage	25	V
VEBO	Emitter to Base voltage	4	V
VCEO	Collector to Emitter voltage	20	V
Ісм	Peak collector current	1	Α
lc	Collector current	700	mA
Pc	Collector dissipation(Ta=25°C)	900	mW
Tj	Junction temperature	+150	ď
Tstg	Storage temperature	-55 to +150	ď

ELECTRICAL CHARACTERISTICS (Ta=25°C)

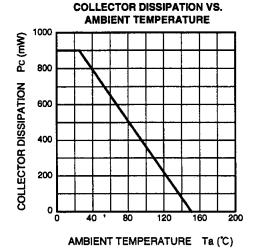
Symbol	Parameter	Test conditions	Limits			Unit
			Min	Тур	Max	Unit
V(BR)CBO	C to B break down voltage	IC=10 μ A,IE=0	25			٧
V(BR)EBO	E to B break down voltage	IE=10 μ A,IC=0	4			V
V(BR)CEO	C to E break down voltage	IC=100 μ A, RBE=∞	20			V
Ісво	Collector cut off current	Vc8=25V,IE=0			1	μΑ
IEBO	Emitter cut off current	VE8=2V,IC=0			1	μΑ
hfe *	DC forward current gain	VcE=4V,lc=100mA	150		800	_
VCE(sat)	C to E saturation voltage	Ic=500mA,Is=25mA		0.2	0.5	V
fr	Gain band width product	VcE=6V,IE=-10mA		180		MHz

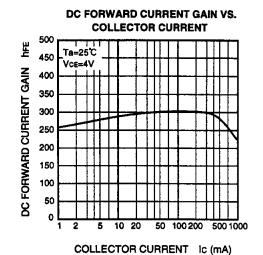
^{* :} It shows her classification in right table.

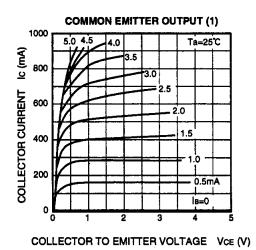
Item	E	F	G
hfE	150 to 300	250 to 500	400 to 800

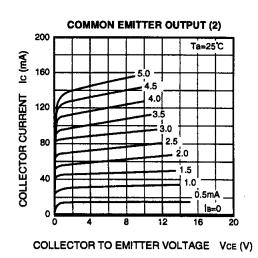
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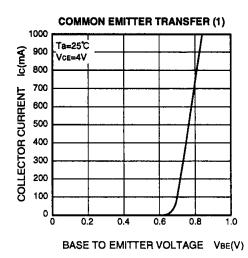
TYPICAL CHARACTERISTICS

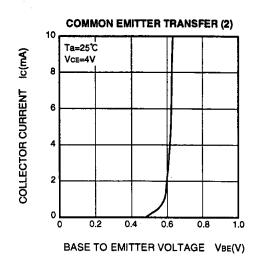














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