

<Transistor>
2SC5486

For strobe,DC/DC convertor Application
 Silicon NPN Epitaxial Type Micro(Frame type)

DESCRIPTION

.. 2SC5486 is a silicon NPN epitaxial Transistor.

It designed with high collector current and high collector dissipation.

FEATURE

- High collector current
 $I_c = 5A$
- Small collector to Emitter saturation voltage
 $V_{CE(sat)} = 0.5V \text{ max} (@ I_c=3A, I_b=100mA)$
- High collector dissipation
 $P_c = 600mW$

APPLICATION

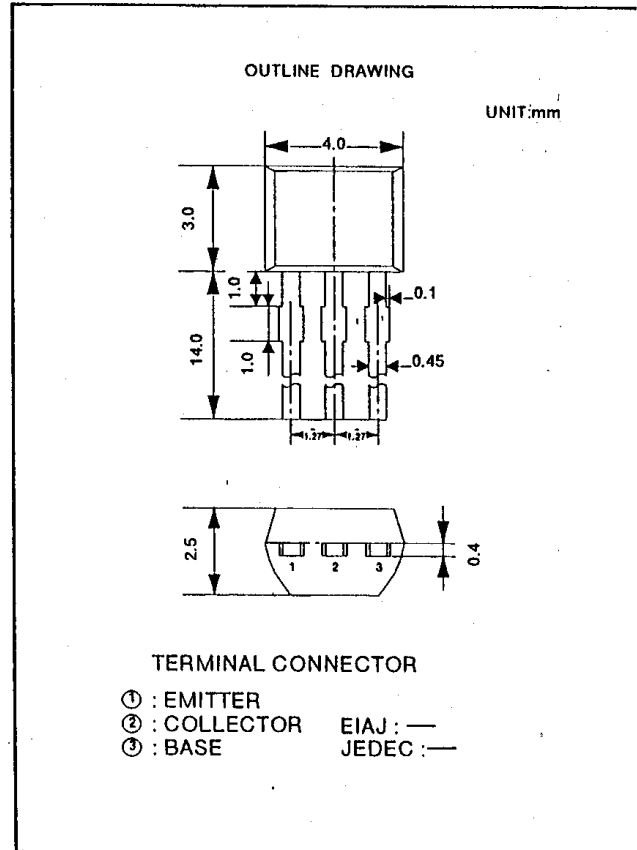
For strobe ,DC/DC convertor,power amplify application

MAXIMUM RATINGS (Ta=25°C)

SYMBOL	PARAMETER	RATINGS	UNIT
V _{CB0}	Collector to Base voltage	15	V
V _{EB0}	Emitter to Base voltage	7	V
V _{CE0}	Collector to Emitter voltage	10	V
I _{CM}	Peak Collector current	8	A
I _c	Collector current	5	A
P _c	Collector dissipation (Ta=25°C)	600	mW
T _j	Junction temperature	+150	°C
T _{stg}	Storage temperature	-55to+150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C)

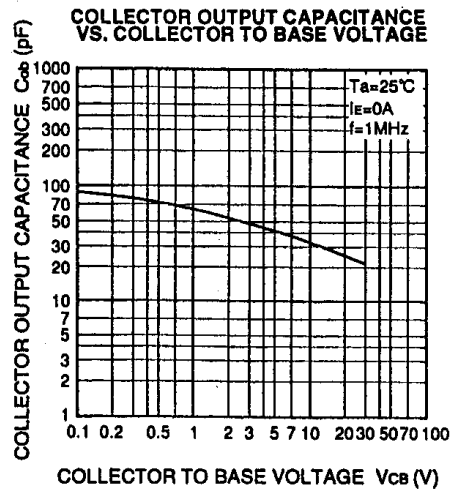
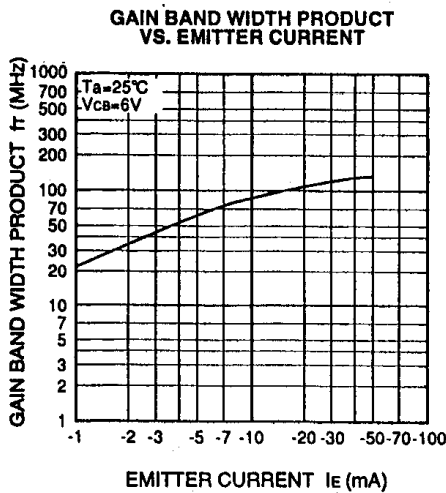
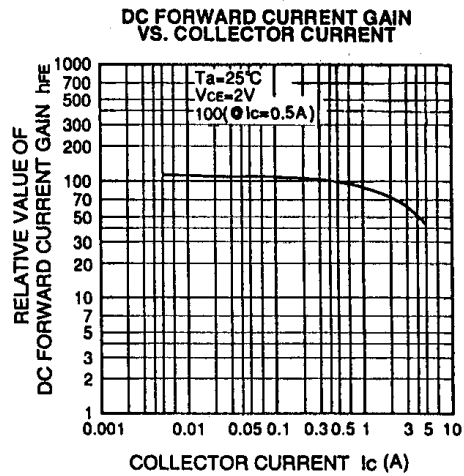
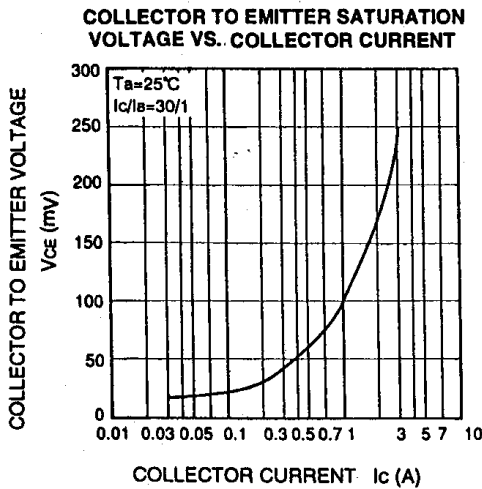
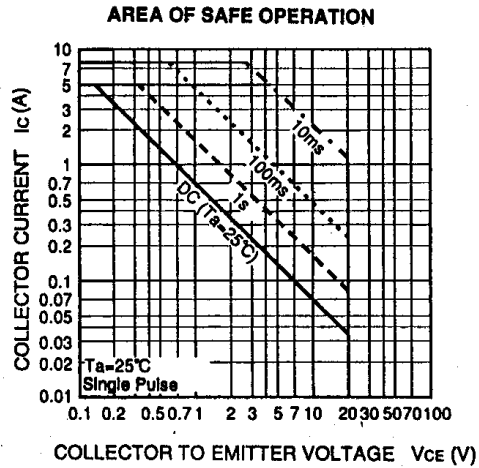
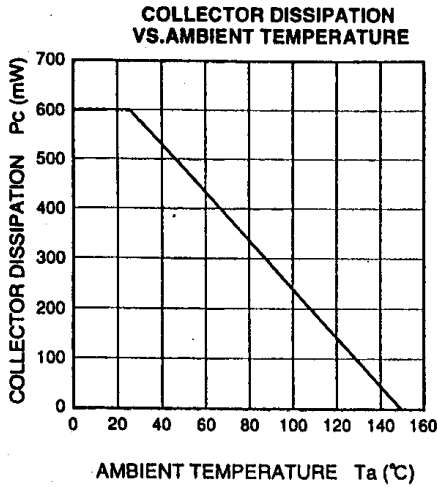
SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			UNIT
			MIN	TYP	MAX	
V _{(BR)CBO}	C to B break down voltage	I _c =50 μA, I _E =0	15			V
V _{(BR)EBO}	E to B break down voltage	I _E =50 μA, I _c =0	7			V
V _{(BR)CEO}	C to E break down voltage	I _c =1mA, R _{BE} =∞	10			V
I _{CB0}	Collector cut off current	V _{CB} =10V, I _E =0			0.1	μA
I _{EB0}	Emitter cut off current	V _{EB} =7V, I _c =0			0.5	μA
h _{FE} *	DC forward current gain	V _{CE} =2V, I _c =0.5A	230		600	—
V _{CE(sat)}	C to E saturation voltage	I _c =3A, I _B =100mA		0.25	0.5	V
f _T	Gain band width product	V _{CE} =6V, I _E =-50mA, f=100MHz		135		MHz
C _{ob}	Collector output capacitance	V _{CB} =10V, I _E =0, f=1MHz		45		pF



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TYPICAL CHARACTERISTICS

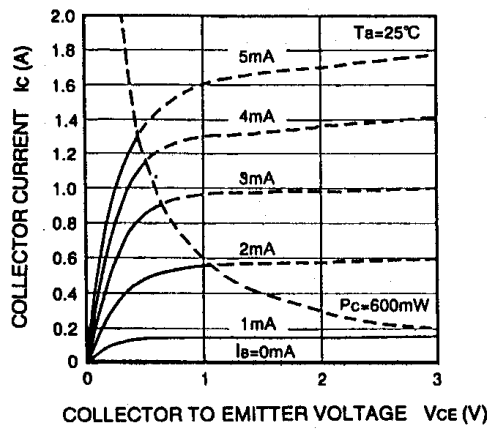


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**COLLECTOR CURRENT VS.
COLLECTOR TO EMITTER VOLTAGE**



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