〈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

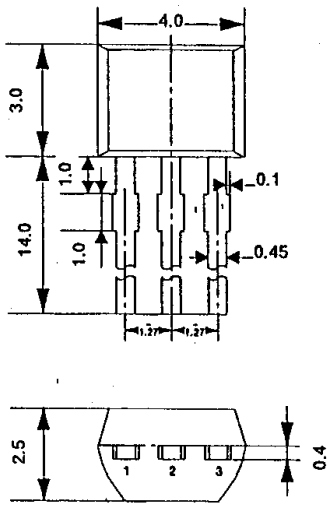
- High collector current
  I C= 5A
- Small collector to Emitter saturation voltage
  VCE(sat) = 0.5V max(@ Ic=3A,IB=100mA)
- High collector dissipation
  PC= 600mW

APPLICATION

For storobe ,DC/DC convertor,power amplify apprication

OUTLINE DRAWING

UNIT:mm



TERMINAL CONNECTOR

① : EMITTER
② : COLLECTOR
③ : BASE

EIAJ : —
JEDEC :—

MAXIMUM RATINGS (Ta=25℃)

SYMBOL	PARAMETER	RATINGS	UNIT
VCBO	Collector to Base voltage	15	V
VEBO	Emitter to Base voltage	7	V
VCEO	Collector to Emitter voltage	10	V
I CM	Peak Collector current	8	A
I C	Collector current	5	A
PC	Collector dissipation (Ta=25℃)	600	mW
Tj	Junction temperature	+150	℃
Tstg	Storage temperature	-55to+150	℃

ELECTRICAL CHARACTERISTICS (Ta=25℃)

SYMBOL	PARAMETER	TESTCONDITIONS	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, RBE=∞	10			V
I CBO	Collector cut off current	VCB=10V, I E=0			0.1	μA
I EBO	Emitter cut off current	VEB=7V, I C=0			0.5	μA
hFE *	DC forward current gain	VCE=2V, I C=0.5A	230		600	—
VCE(sat)	C to E saturation voltage	I C=3A, I B=100mA		0.25	0.5	V
fT	Gain band width product	VCE=6V, I E=-50mA,f=100MHz		135		MHz
Cob	Collector output capacitance	VCB=10V, I E=0, f=1MHz		45		pF

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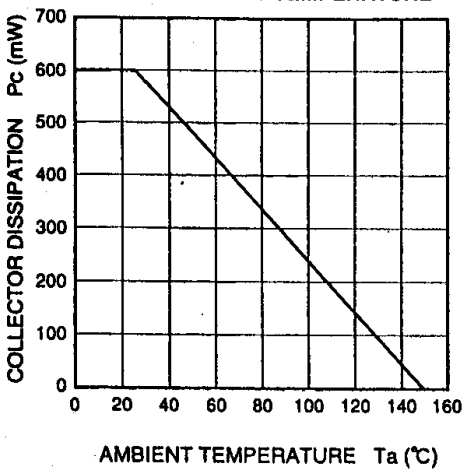
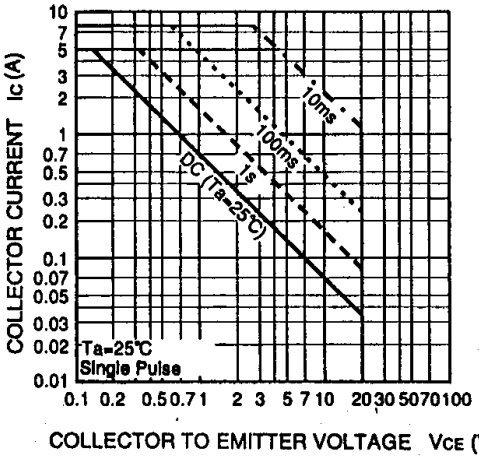
TYPICAL CHARACTERISTICS

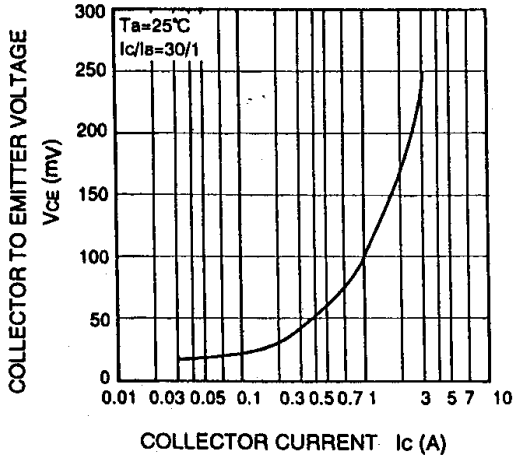
COLLECTOR DISSIPATION VS.AMBIENT TEMPERATURE



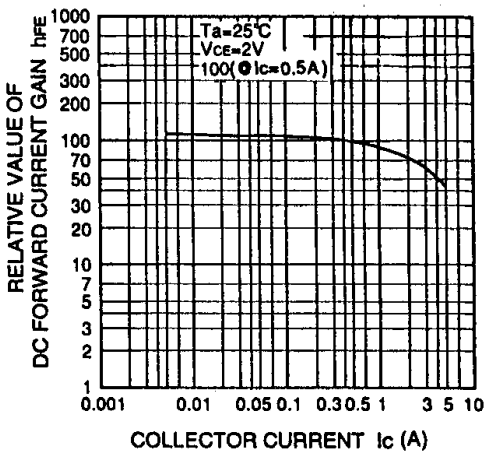
AREA OF SAFE OPERATION



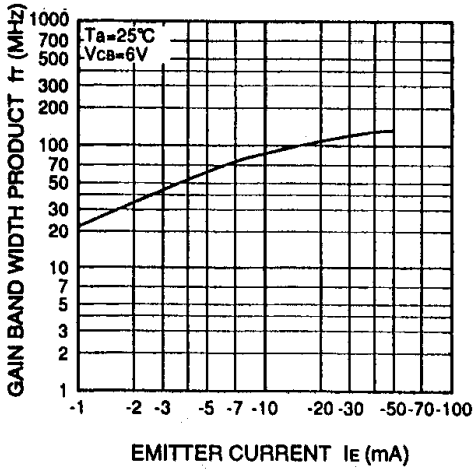
COLLECTOR TO EMITTER SATURATION VOLTAGE VS. COLLECTOR CURRENT



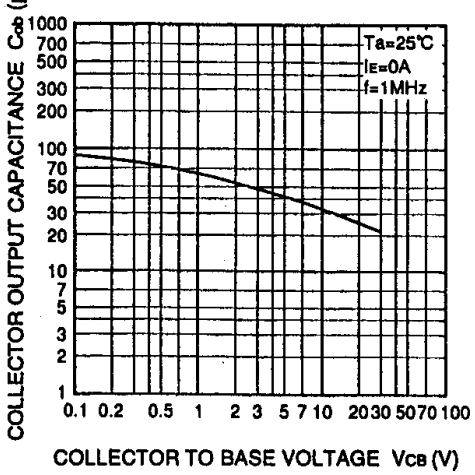
DC FORWARD CURRENT GAIN VS. COLLECTOR CURRENT



GAIN BAND WIDTH PRODUCT VS. EMITTER CURRENT



COLLECTOR OUTPUT CAPACITANCE VS. COLLECTOR TO BASE VOLTAGE



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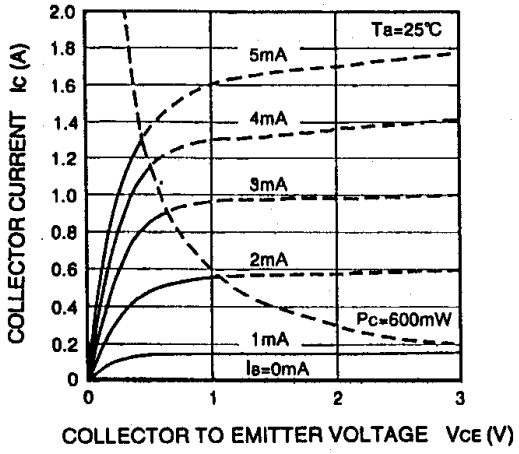
**COLLECTOR CURRENT VS.
COLLECTOR TO EMITTER VOLTAGE**



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