〈Transistor〉

2SC5482

For Low Frequency Power Amplify Appication
Silicon NPN Epitaxial Type Micro(Frame type)

DESCRIPTION

2SC5482 is a silicon NPN epitaxial designed for relaydrive or power supply application.

FEATURE

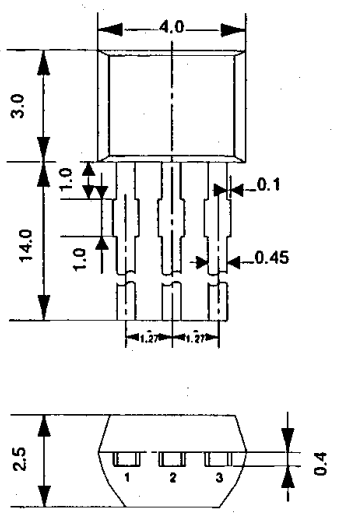
- High collector current
  I_C=1A
- Low $V_{CE(sat)}$
  $V_{CE(sat)}$=0.11V typ (@ I_C=500mA,I_B=25mA)
- High voltage
  V_{CEO}= 60V
- High collector dissipation
  P_C= 600mW

APPLICATION

Relay drive, power supply for audio equipment, VCR, etc

OUTLINE DRAWING

UNIT:mm



TERMINAL CONNECTOR

① : EMITTER
② : COLLECTOR
③ : BASE

EIAJ : —
JEDEC :—

MAXIMUM RATINGS (Ta=25℃)

SYMBOL	PARAMETER	RATINGS	UNIT
V_{CBO}	Collector to Base voltage	60	V
V_{EBO}	Emitter to Base voltage	6	V
V_{CEO}	Collector to Emitter voltage	60	V
I_{CM}	Peak Collector current	2	A
I_C	Collector current	1	A
P_C	Collector dissipation (Ta=25℃)	600	mW
T_j	Junction temperature	+150	℃
T_{stg}	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=10μA, I_E=0	60			V
$V_{(BR)EBO}$	E to B break down voltage	I_E=10μA, I_C=0	6			V
$V_{(BR)CEO}$	C to E break down voltage	I_C=2mA, R_{BE}=∞	60			V
I_{CBO}	Collector cut off current	V_{CB}=50V, I_E=0			0.2	μA
I_{EBO}	Emitter cut off current	V_{EB}=4V, I_C=0			0.2	μA
h_{FE} *	DC forward current gain	V_{CE}=4V, I_C=100mA	55		300	—
$V_{CE(sat)}$	C to E saturation voltage	I_C=500mA, I_B=25mA		0.11	0.3	V
f_T	Gain band width product	V_{CE}=2V, I_E=-10mA		120		MHz
C_{ob}	Collector output capacitance	V_{CB}=10V, I_E=0, f=1MHz		14		pF

ITEM	C	D	E
h_{FE}	55～110	90～180	150～300

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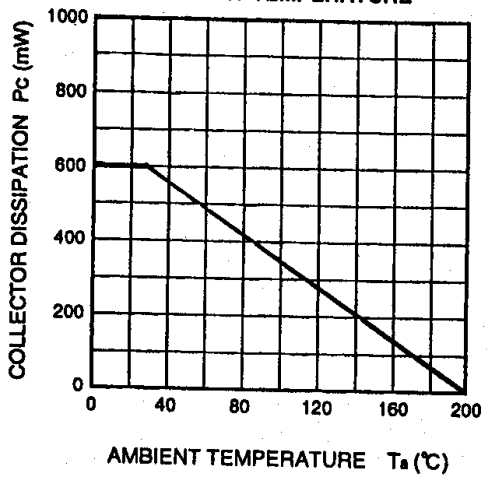
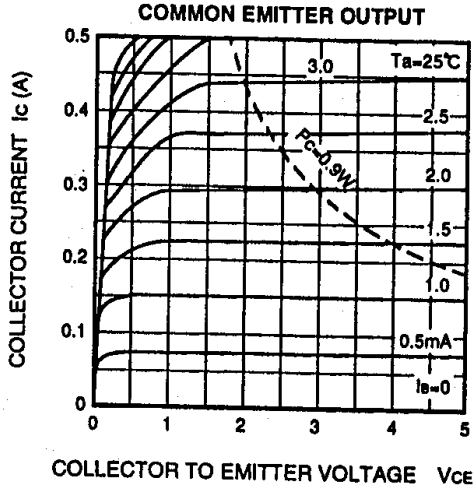
TYPICAL CHARACTERISTICS

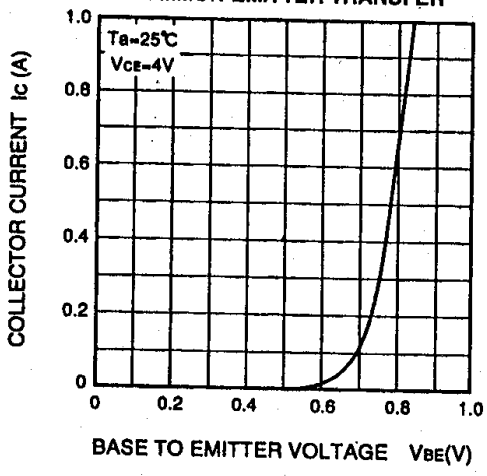
COLLECTOR DISSIPATION VS. AMBIENT TEMPERATURE



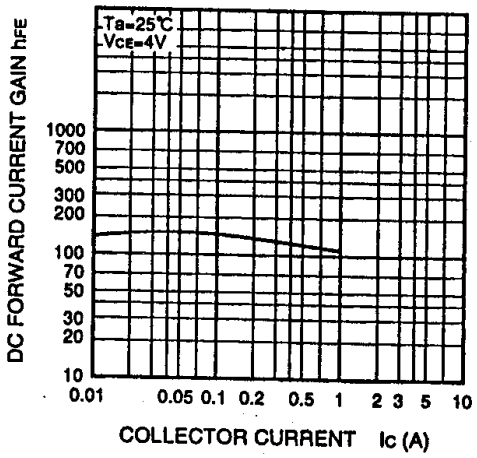
COMMON EMITTER OUTPUT



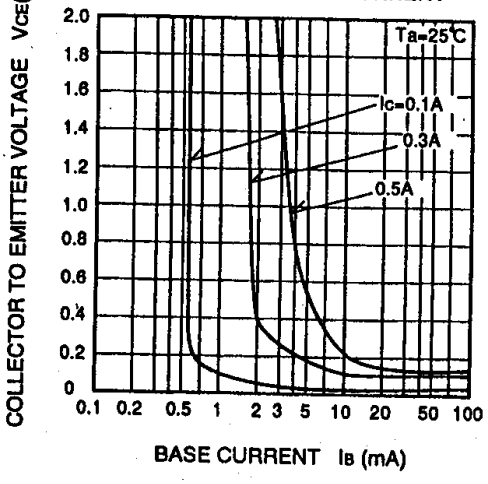
COMMON EMITTER TRANSFER



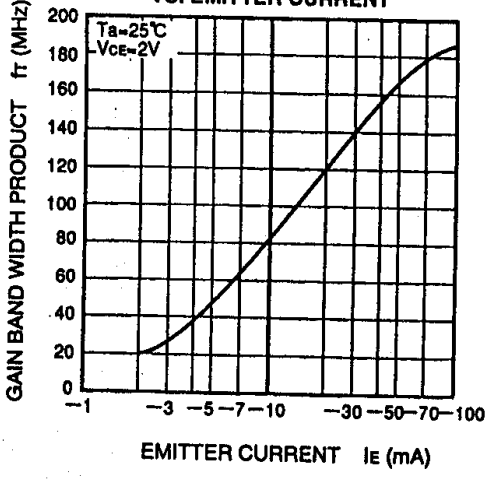
DC FORWARD CURRENT GAIN VS. COLLECTOR CURRENT



COLLECTOR TO EMITTER SATURATION VOLTAGE VS. BASE CURRENT



GAIN BAND WIDTH PRODUCT VS. EMITTER CURRENT



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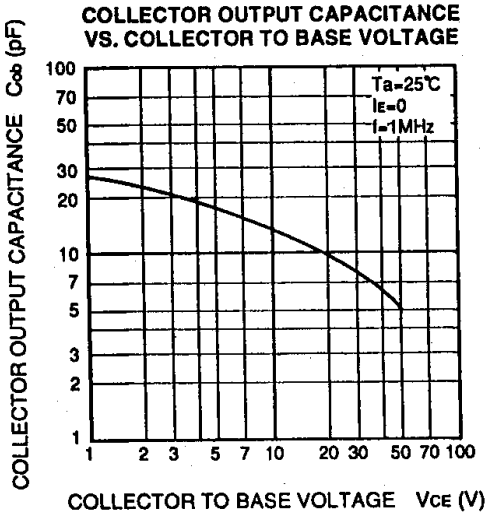

ISAHAYA ELECTRONICS CORPORATION

http://www.idc-com.co.jp
6-41, TSUKUBA, ISAHAYA, NAGASAKI, 854-0065, JAPAN

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