

2SC5482

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

DESCRIPTION

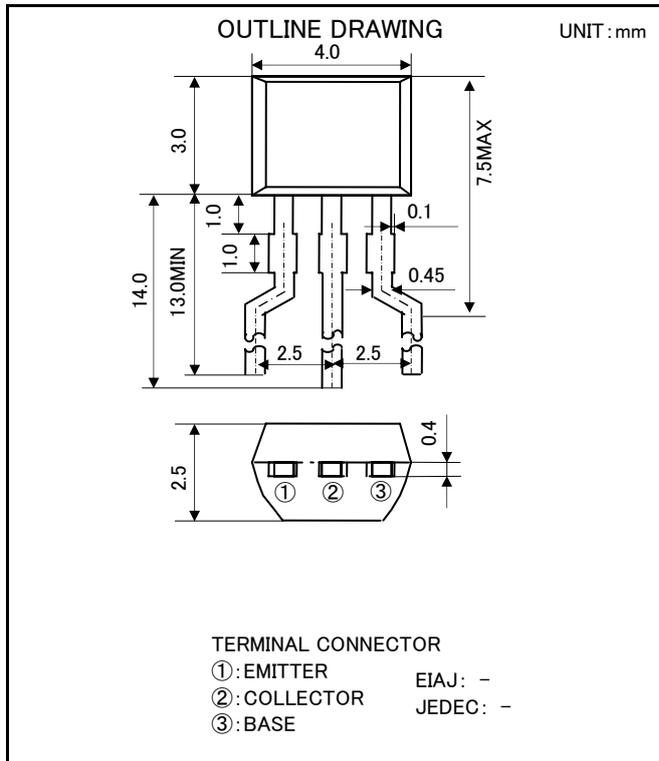
2SC5482 is a silicon NPN epitaxial designed for relay drive or power supply application.

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

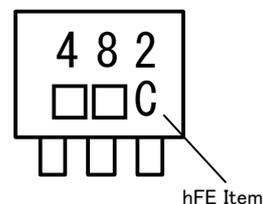
Relay drive, power supply for audio equipment, VCR, etc



MAXIMUM RATINGS ($T_a=25^{\circ}C$)

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	600	mW
T_j	Junction temperature	+150	$^{\circ}C$
T_{stg}	Storage temperature	-55~+150	$^{\circ}C$

MARKING



ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}C$)

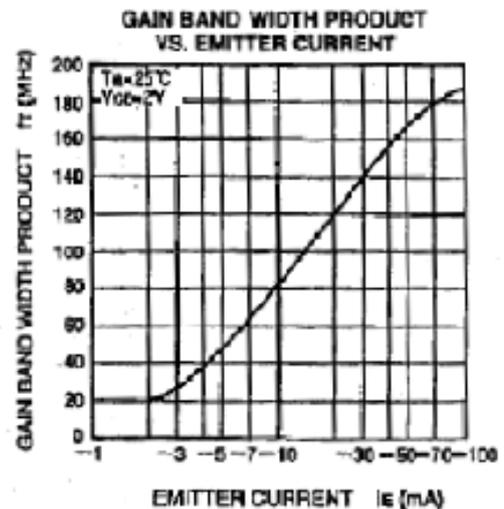
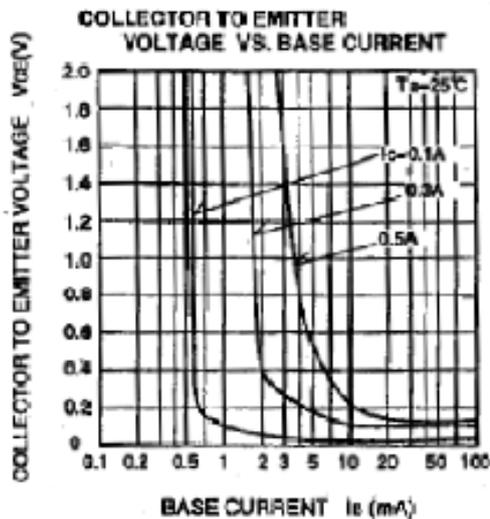
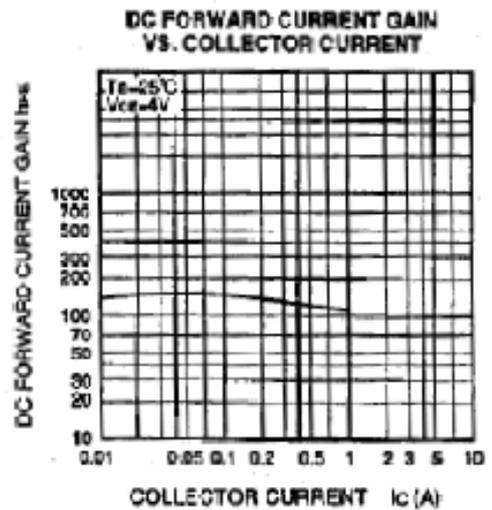
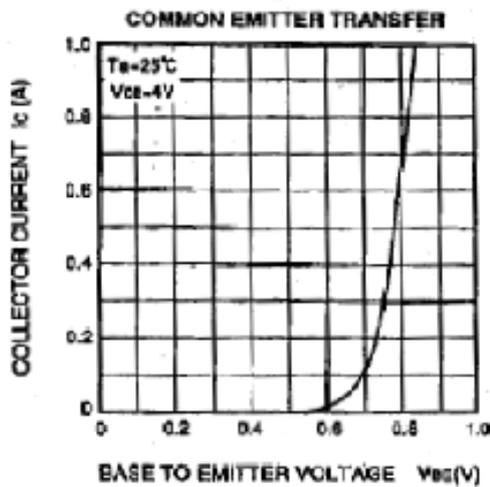
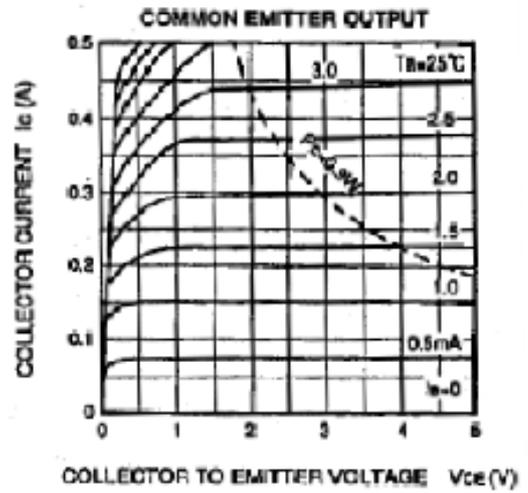
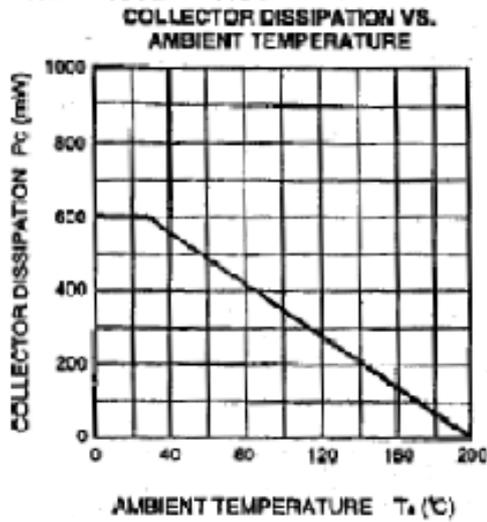
Parameter	Symbol	Test conditions	Limits			Unit
			Min	Typ	Max	
$V_{(BR)CBO}$	C to B break down voltage	$I_C=10\mu A, I_E=0mA$	60	-	-	V
$V_{(BR)EBO}$	E to B break down voltage	$I_E=10\mu A, I_C=0mA$	6	-	-	V
$V_{(BR)CEO}$	C to E break down voltage	$I_C=2mA, R_{BE}=\infty$	60	-	-	V
I_{CBO}	Collector cut off current	$V_{CB}=50V, I_E=0mA$	-	-	0.2	μA
I_{EBO}	Emitter cut off current	$V_{EB}=4V, I_C=0mA$	-	-	0.2	μA
hFE	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
fT	Gain bandwidth product	$V_{CE}=2V, I_E=-10mA$	-	120	-	MHz
Cob	Collector output capacitance	$V_{CB}=10V, I_E=0mA, f=1MHz$	-	14	-	pF

Item	C	D	E
hFE	55~110	90~180	150~300

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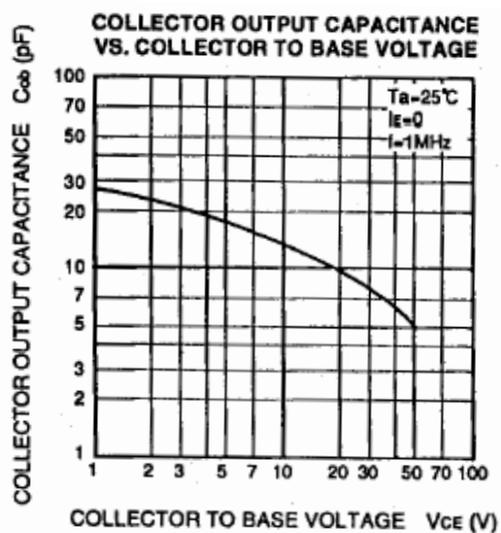
TYPICAL CHARACTERISTICS



<transistor>

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