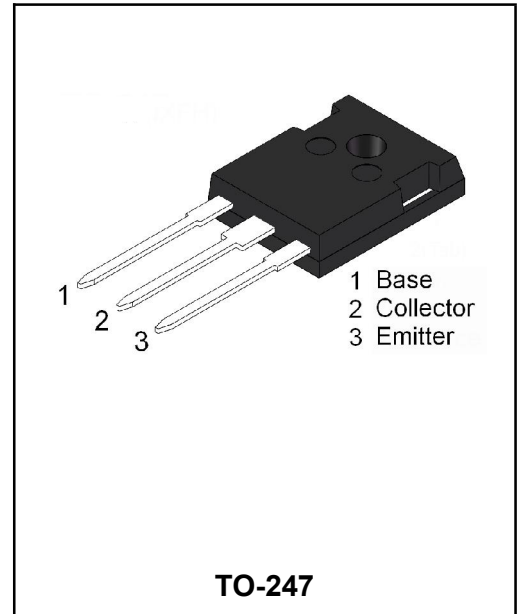


**NPN Audio and General purpose Amplifier**

**Features**

- High collector-base breakdown voltage
- High DC current gain
- Complement to type 2SA1694



**Absolute Maximum Rating (T<sub>c</sub>=25°C)**

Parameter		Symbol	Value	Unit
Collector-Base Voltage		$BV_{CBO}$	160	V
Collector-Emitter Voltage		$BV_{CEO}$	120	V
Emitter-Base Voltage		$BV_{EBO}$	6	V
Collector Current		$I_C$	8	A
Base Current		$I_B$	3	A
Power Dissipation	$T_A=25^{\circ}C$	$P_D$	3.5	W
	$T_C=25^{\circ}C$		80	
Junction Temperature		$T_j$	150	°C
Storage Temperature		$T_{stg}$	-40~150	°C

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged.  
 Absolute maximum ratings are stress ratings only and functional device operation is not implied.

**Electrical Characteristics (Ta=25°C)**

Parameter	Symbol	Conditions	Value			Unit
			Min	Typ	Max	
Collector-base breakdown voltage	$BV_{CBO}$	$I_C = 1mA, I_E = 0$	160			V
Collector-emitter breakdown voltage	$BV_{CEO}$	$I_C = 50mA, I_B = 0$	120			V
Emitter-base breakdown voltage	$BV_{EBO}$	$I_E = 1mA, I_C = 0$	6			V
Collector cut-off current	$I_{CBO}$	$V_{CB} = 120V, I_E = 0$			10	$\mu A$
Emitter cut-off current	$I_{EBO}$	$V_{EB} = 6V, I_C = 0$			10	$\mu A$
DC current gain	$h_{FE}$	$V_{CE} = 4V, I_C = 3A$	50		180	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = 3A, I_B = 0.3A$			1.5	V
Base-emitter on voltage	$V_{BE(sat)}$	$I_C = 3A, I_B = 0.3A$			2.5	V
Transition frequency	$f_T$	$V_{CE} = 12V, I_C = 0.5A, f = 1MHz$		20		MHz
Output Capacitance	$C_{ob}$	$V_{CB} = 10V, I_E = 0, f = 1MHz$		200		pF
Turn-on Time	$t_{ON}$	$V_C = 40V, I_C = 4A, I_{B1} = I_{B2} = 0.4A, R_L = 10\Omega$		0.13		$\mu S$
Switching Time	$t_S$			3.5		$\mu S$
Fall Time	$t_F$			0.32		$\mu S$

\*Pulse Test: Pulse Width = 300 $\mu s$ , Duty Cycle = 2%

 **$h_{FE}$  Classification**

Clas	2SC4467-O	2SC4467-P	2SC4467-Y
Range	50~100	70~140	90~180

Typical Characteristics

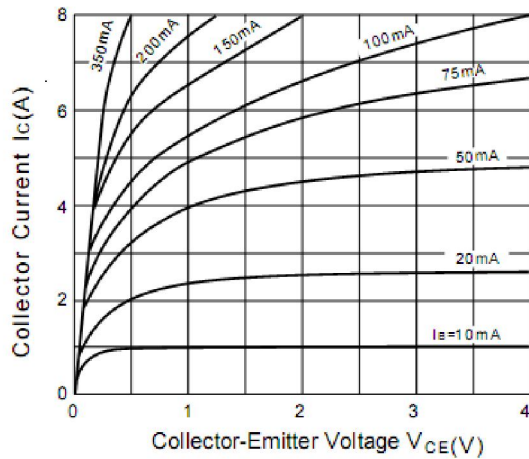


Figure 1. Static Characteristic

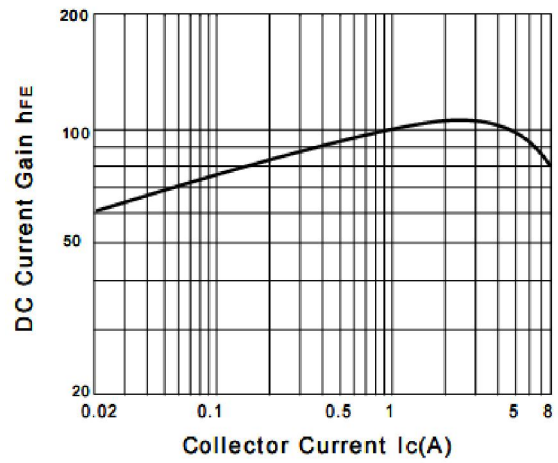


Figure 2. DC current Gain

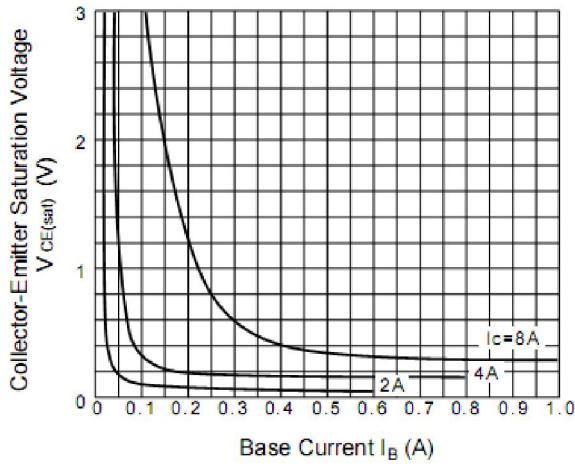


Figure 3. Saturation Voltage

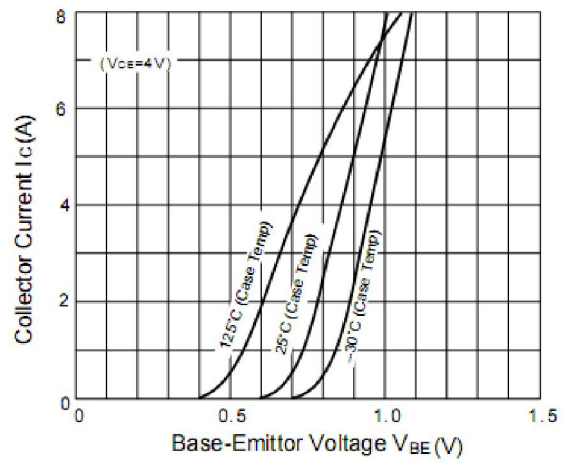


Figure 4.  $I_c$ - $V_{BE}$  Temperature Characteristics

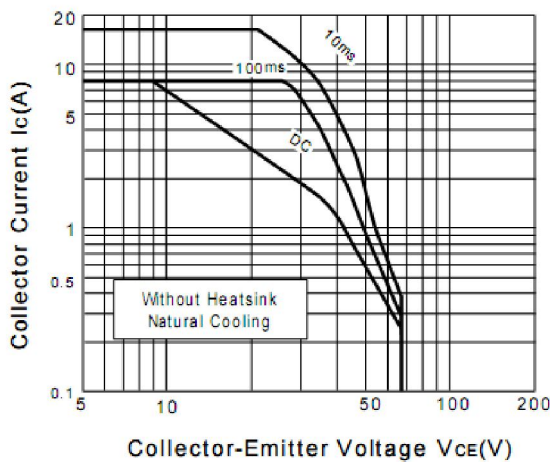


Figure 5. Safe Operating Area

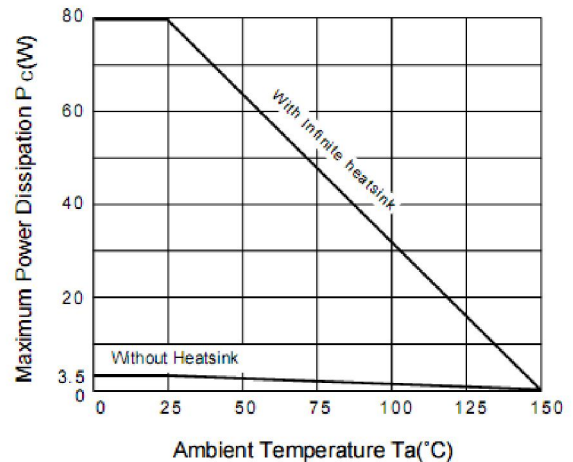


Figure 6. Power Derating

Package Dimensions

TO-247

Symbol	Millimeter		Inches	
	Min.	Max.	Min.	Max.
A	4.90	5.10	0.193	0.201
A1	1.90	2.10	0.075	0.083
A2	2.29	2.54	0.090	0.100
b	1.00	1.40	0.039	0.055
b1	2.00	2.20	0.079	0.087
b2	3.00	3.20	0.118	0.126
c	0.50	0.70	0.020	0.028
D	15.75	16.05	0.620	0.632
E	20.20	20.80	0.795	0.819
e	5.45 (BSC)		0.215 (BSC)	
e1	10.90 (BSC)		0.429 (BSC)	
F	6.05	6.25	0.238	0.246
F1	5.80	6.00	0.228	0.236
L	20.10	20.40	0.791	0.803
L1	4.05	4.35	0.159	0.171
Φ	3.50	3.70	0.138	0.146

