

2SA679, 2SA680

○ Audio Power Amplifier Applications

- 最大定格** MAXIMUM RATINGS (Ta=25°C)

The drawing shows two views of a mechanical component:

- Top View:** A diamond-shaped component with a maximum width of 40.0 Max. It features three mounting holes labeled 1, 2, and 3. The distance between hole centers is 30.2 ± 0.20, with individual hole positions at 16.85 - 0.20 from the centerline. Hole diameters are 1.0 φ + 0.09 / - 0.03.
- Side View:** Shows the profile of the component with a total height of 11.0 ± 0.5. Key features include a base thickness of 2.0 Max, a central raised section with a diameter of 25.0 φ Max and a width of 21.0 φ Max, and a flange thickness of 1.8 Max.

	Unit in mm
JEDEC	TO-3
EIAJ	TC-3, TB-3
TOSHIBA	2-19A

アクセサリはAC73を適用
MOUNTING KIT NO. AC73

Characteristic		Symbol	Condition	Min.	Typ.	Max.	Unit
コレクタシャ断電流		I_{CBO}	$V_{CB} = -50V, I_E = 0$	—	—	-100	μA
エミッタシャ断電流		I_{EBO}	$V_{EB} = -5V, I_C = 0$	—	—	-100	μA
コレクタ・エミッタ間 降伏電圧	2SA679	$V_{(BR)CEO}$	$I_C = -100mA, I_B = 0$	-120	—	—	V
	2SA680			-100	—	—	
エミッタ・ベース間降 伏電圧	2SA679	$V_{(BR)EBO}$	$I_E = -10mA, I_C = 0$	-5	—	—	V
	2SA680			-5	—	—	
直流電流増幅率		(Note) $h_{EF(1)}$	$V_{CE} = -5V, I_C = -2A$	40	—	140	
		$h_{FE(2)}$	$V_{CE} = -5V, I_C = -7A$	15	—	—	
コレクタ・エミッタ間飽和電圧		$V_{CE(sat)}$	$I_C = -10A, I_B = -1A$	—	—	-3.0	V
ベース・エミッタ間電圧		V_{BE}	$V_{CE} = -5V, I_C = -10A$	—	—	-2.5	V
トランジション周波数		f_T	$V_{CE} = -5V, I_C = -2A$	—	6	—	MHz
コレクタ出力容量		C_{ob}	$V_{CB} = -10V, I_E = 0, f = 1MHz$	—	900	—	pF

According to the value of $h_{FE(1)}$, the 2SA679 and 2SA680 are classified as follows.

Classification	Min.	Max.
2SA679-R	40	80
2SA680-R		
2SA679-Y	70	140
2SA680-Y		

