

RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

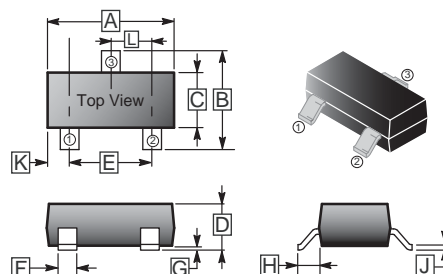
## FEATURES

- High Breakdown Voltage. ( $V_{CE0} = -120V$ )
- Complementary of the 2SC4102

## SOT-323

## CLASSIFICATION OF $h_{FE}$

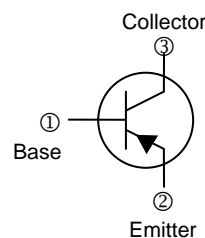
Product-Rank	2SA1579-R	2SA1579-S
Range	180~390	270~560
Marking	RR	RS



## PACKAGE INFORMATION

Package	MPQ	LeaderSize
SOT-323	3K	7' inch

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.80	2.20	G	0.100 REF.	
B	1.80	2.45	H	0.525 REF.	
C	1.15	1.35	J	0.08	0.25
D	0.80	1.10	K	-	-
E	1.20	1.40	L	0.650 TYP.	
F	0.20	0.40			



## ABSOLUTE MAXIMUM RATINGS ( $T_A = 25^\circ C$ unless otherwise noted)

Parameter	Symbol	Ratings	Unit
Collector to Base Voltage	$V_{CBO}$	-120	V
Collector to Emitter Voltage	$V_{CEO}$	-120	V
Emitter to Base Voltage	$V_{EBO}$	-5	V
Collector Current - Continuous	$I_C$	-50	mA
Collector Power Dissipation	$P_C$	100	mW
Junction and Storage Temperature	$T_J, T_{STG}$	150, -55~150	$^\circ C$

## ELECTRICAL CHARACTERISTICS ( $T_A = 25^\circ C$ unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector to Base Breakdown Voltage	$V_{(BR)CBO}$	-120	-	-	V	$I_C = -50\mu A, I_E = 0$
Collector to Emitter Breakdown	$V_{(BR)CEO}$	-120	-	-	V	$I_C = -1mA, I_B = 0$
Emitter to Base Breakdown Voltage	$V_{(BR)EBO}$	-5	-	-	V	$I_E = -50\mu A, I_C = 0$
Collector Cut - off Current	$I_{CBO}$	-	-	-0.5	$\mu A$	$V_{CB} = -100V, I_E = 0$
Emitter Cut - off Current	$I_{EBO}$	-	-	-0.5	$\mu A$	$V_{EB} = -4V, I_C = 0$
DC Current Gain	$h_{FE}$	180	-	560		$V_{CE} = -6V, I_C = -2mA$
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	-	-	-0.5	V	$I_C = -10mA, I_B = -1mA$
Transition Frequency	$f_T$	-	140	-	MHz	$V_{CE} = -12V, I_C = -2mA, f = 30MHz$
Collector Output Capacitance	$C_{ob}$	-	3.2	-	pF	$V_{CB} = -12V, I_E = 0, f = 1MHz$

**CHARACTERISTIC CURVE**

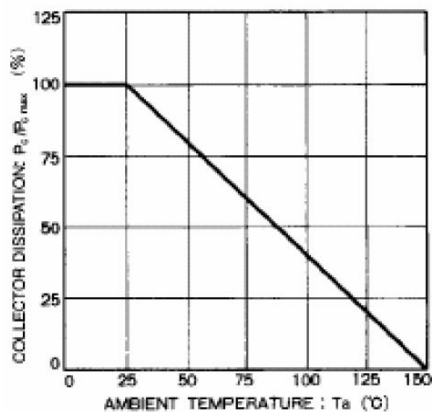


Figure 1

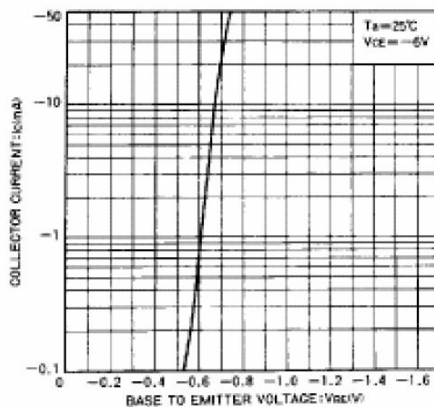


Figure 2

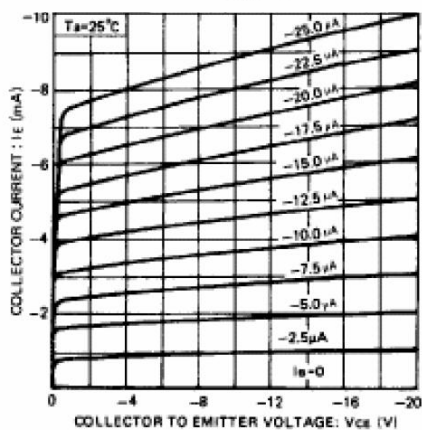


Figure 3

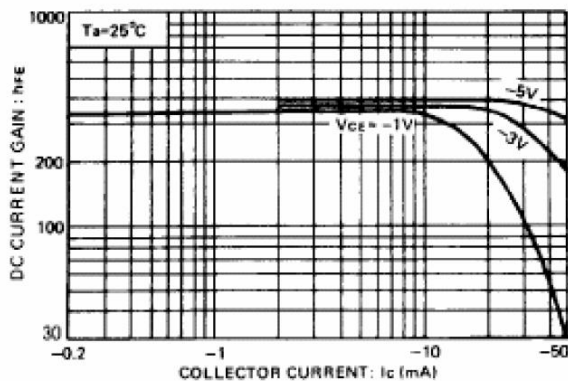


Figure 4

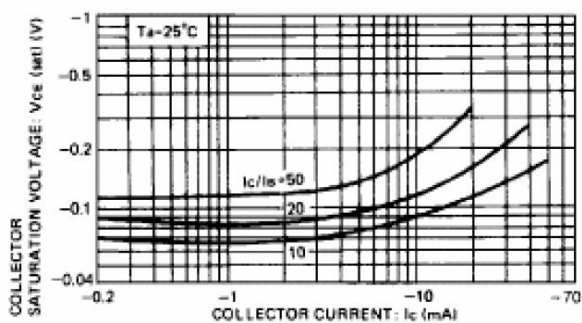


Figure 5

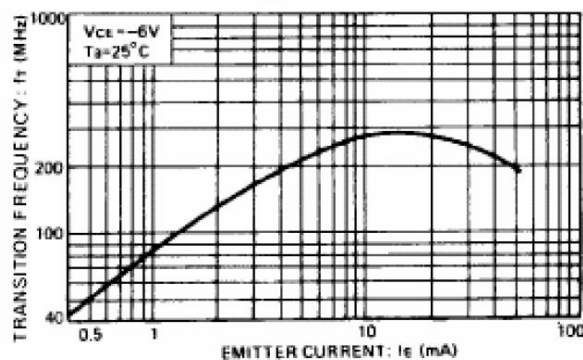


Figure 6

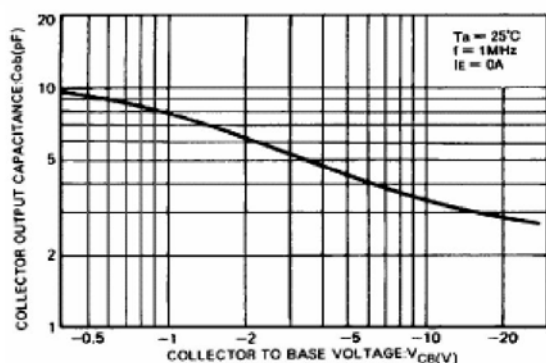


Figure 7

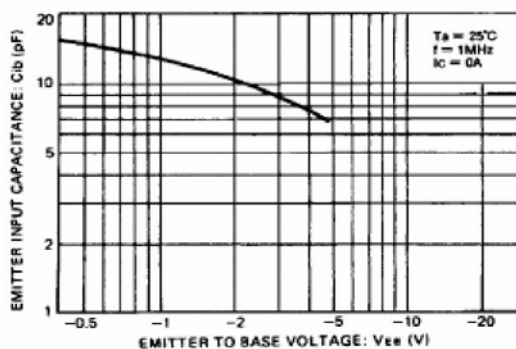


Figure 8