

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

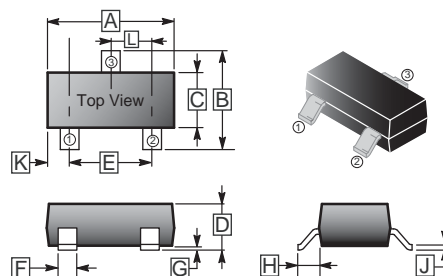
FEATURES

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

SOT-323

CLASSIFICATION OF h_{FE}

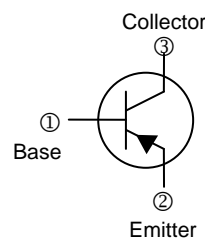
Product-Rank	2SA1579-R	2SA1579-S
Range	180~390	270~560
Marking	RR	RS



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	μA	$V_{CB} = -100V, I_E = 0$
Emitter Cut - off Current	I_{EBO}	-	-	-0.5	μA	$V_{EB} = -4V, I_C = 0$
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

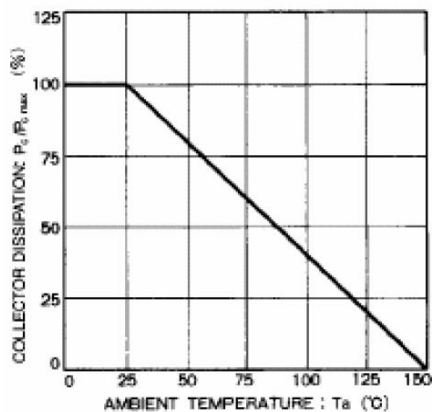


Figure 1

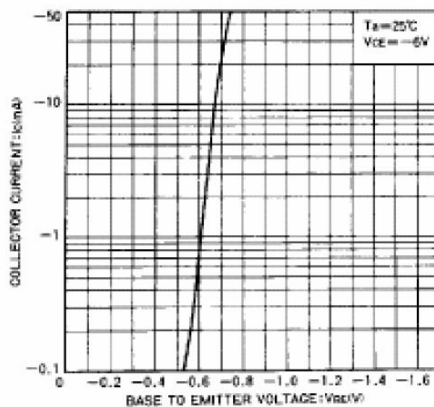


Figure 2

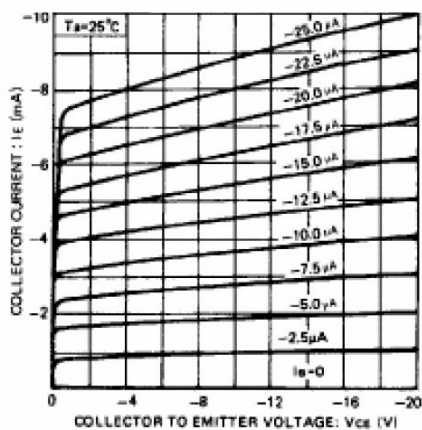


Figure 3

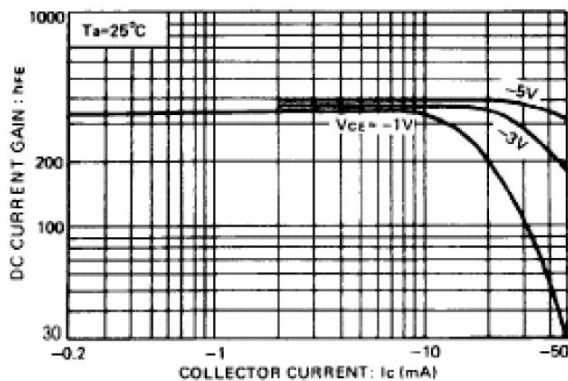


Figure 4

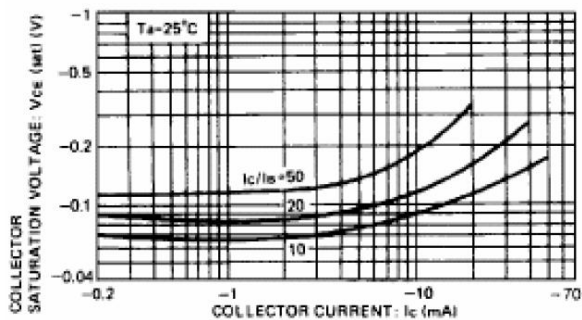


Figure 5

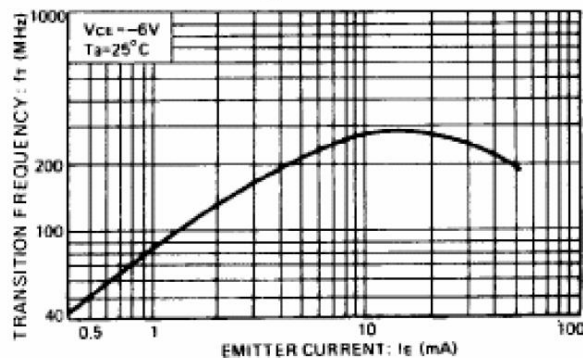


Figure 6

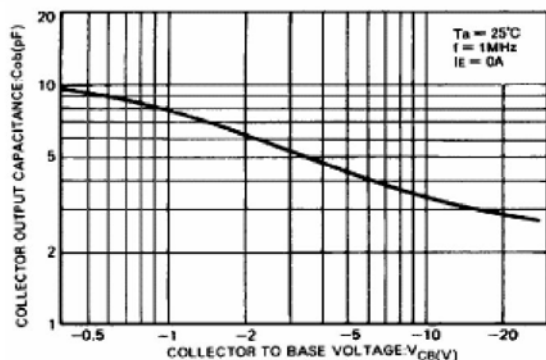


Figure 7

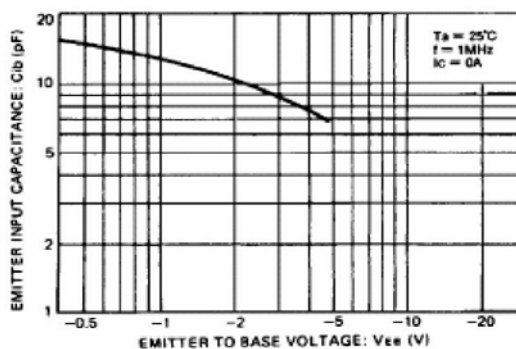


Figure 8