Elektronische Bauelemente

2SA1298

-0.8A , -35V

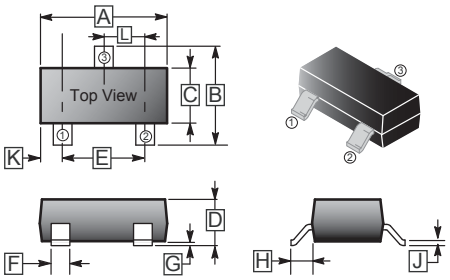
PNP Silicon Plastic Encapsulated Transistor

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

FEATURES

- Low Frequency Power Amplifier Application
- Power Switching Applications

SOT-23



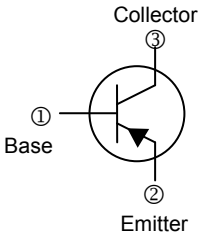
CLASSIFICATION OF $h_{FE(1)}$

Product-Rank	2SA1298-O	2SA1298-Y
Range	100~200	160~320
Marking	IO	IY

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.80	3.00	G	0.10 REF.	
B	2.25	2.55	H	0.55 REF.	
C	1.20	1.40	J	0.08	0.15
D	0.90	1.15	K	0.5 REF.	
E	1.80	2.00	L	0.95 TYP.	
F	0.30	0.50			

PACKAGE INFORMATION

Package	MPQ	LeaderSize
SOT-23	3K	7' inch



ABSOLUTE MAXIMUM RATINGS (T_A = 25°C unless otherwise noted)

Parameter	Symbol	Ratings	Unit
Collector to Base Voltage	V_{CBO}	-35	V
Collector to Emitter Voltage	V_{CEO}	-30	V
Emitter to Base Voltage	V_{EBO}	-5	V
Collector Current - Continuous	I_C	-800	mA
Collector Power Dissipation	P_C	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	625	°C / W
Junction and Storage Temperature	T_J, T_{STG}	150, -55~150	°C

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector to Base Breakdown Voltage	$V_{(BR)CBO}$	-35	-	-	V	I_C= -1mA, I_E=0
Collector to Emitter Breakdown	$V_{(BR)CEO}$	-30	-	-	V	I_C= -10mA, I_B=0
Emitter to Base Breakdown Voltage	$V_{(BR)EBO}$	-5	-	-	V	I_E= -1mA, I_C=0
Collector Cut-off Current	I_{CBO}	-	-	-0.1	μA	V_{CB}= -30V, I_E=0
Emitter Cut-off Current	I_{EBO}	-	-	-0.1	μA	V_{EB}= -5V, I_C=0
DC Current Gain	$h_{FE(1)}$	100	-	320		V_{CE}= -1V, I_C= -100mA
	$h_{FE(2)}$	40	-	-		V_{CE}= -1V, I_C= -800mA
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	-0.5	-	-0.8	V	I_C= -500mA, I_B= -20mA
Base to Emitter Saturation Voltage	V_{BE}	-	-	-0.5	V	V_{CB}= -1V, I_C= -10mA
Transition Frequency	f_T	-	120	-	MHz	V_{CE}= -5V, I_C= -10mA
Collector Output Capacitance	C_{ob}	-	13	-	pF	V_{CB}= -10V, I_E=0, f=1MHz