

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

FEATURES

- Silicon Power Darlington Transistors
- Low Speed Switching and Amplifier Applications

MARKING

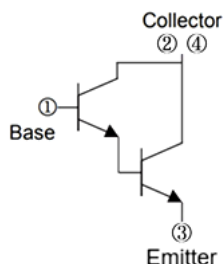
ZT122

PACKAGE INFORMATION

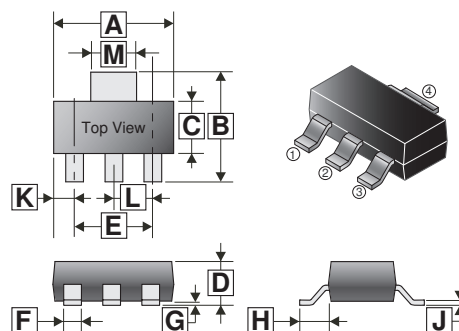
Package	MPQ	Leader Size
SOT-223	2.5K	13 inch

ORDER INFORMATION

Part Number	Type
CZT122-C	Lead (Pb)-free and Halogen-free



SOT-223



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	5.90	6.70	G	-	0.18
B	6.70	7.30	H	2.00 REF.	
C	3.30	3.80	J	0.20	0.40
D	1.42	1.90	K	1.10 REF.	
E	4.45	4.75	L	2.30 REF.	
F	0.60	0.85	M	2.80	3.20

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

Parameter	Symbol	Ratings	Unit
Collector-Base Voltage	V _{CBO}	100	V
Collector-Emitter Voltage	V _{CEO}	100	
Emitter-Base Voltage	V _{EBO}	5	
Collector Current-Continuous	I _C	5	A
Collector Power Dissipation	P _D	1	W
Operation Junction & Storage Temperature	T _J , T _{STG}	150, -55~150	°C

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	100	-	-	V	I _C =1mA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	100	-	-	V	I _C =30mA, I _B =0
Collector Cut-off Current	I _{CBO}	-	-	200	μA	V _{CB} =100V, I _E =0
Base Cut-off Current	I _{CEO}	-	-	500		V _{CE} =50V, I _B =0
Emitter Cut-off Current	I _{EBO}	-	-	2	mA	V _{EB} =5V, I _C =0
DC Current Gain	h _{FE}	1000	-	-		V _{CE} =3V, I _C =0.5A
		1000	-	-		V _{CE} =3V, I _C =3A
Collector-Emitter Saturation Voltage	V _{CE(sat)}	-	-	2	V	I _C =3A, I _B =12mA
		-	-	4		I _C =5A, I _B =20mA
Base-Emitter Voltage	V _{BE(on)}	-	-	2.5	V	I _C =3A, V _{CE} =3V
Transition Frequency	f _T	-	4	-	MHz	V _{CE} =4V, I _C =3A, f=1MHz
Collector Output Capacitance	C _{ob}	-	200	-	pF	V _{CB} =10V, I _E =0, f=1MHz

CHARACTERISTIC CURVES

Static Characteristic

