

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

FEATURES

- For AF Driver and Output Stages
- Power Switching Applications

MARKING

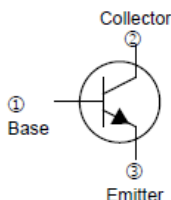
ZTA42

PACKAGE INFORMATION

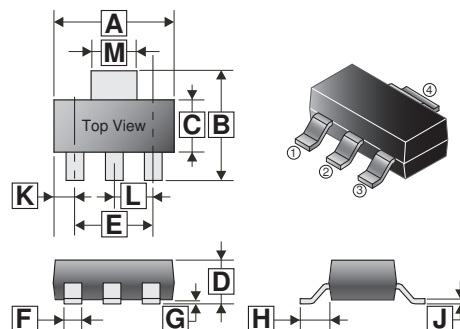
Package	MPQ	Leader Size
SOT-223	2.5K	13 inch

ORDER INFORMATION

Part Number	Type
PZTA42-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}	300	V
Collector-Emitter Voltage	V _{CEO}	300	V
Emitter-Base Voltage	V _{EBO}	6	V
Collector Current-Continuous	I _C	0.2	A
Collector Current-Pulsed	I _{CM}	0.5	A
Collector Power Dissipation	P _C	1	W
Junction, Storage Temperature	T _J , T _{STG}	150, -55~150	°C

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

Parameter	Symbol	Min.	Max.	Unit	Test Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	300	-	V	I _C =100μA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	300	-	V	I _C =1mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	6	-	V	I _E =100μA, I _C =0
Collector Cut-off Current	I _{CBO}	-	0.1	μA	V _{CB} =200V, I _E =0
Emitter-Base Cut-off Current	I _{EBO}	-	0.1	μA	V _{EB} =6V, I _C =0
DC Current Gain	h _{FE}	25	-		V _{CE} =10V, I _C =1mA
		40	-		V _{CE} =10V, I _C =10mA
		40	-		V _{CE} =10V, I _C =30mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}	-	0.5	V	I _C =20mA, I _B =2mA
Base-Emitter Saturation Voltage	V _{BE(sat)}	-	0.9	V	I _C =20mA, I _B =2mA
Transition Frequency	f _T	50	-	MHz	V _{CE} =20V, I _C =10mA, f=100MHz
Collector Output Capacitance	C _{ob}	-	3	pF	V _{CB} =20V, I _E =0, f=1MHz

CHARACTERISTIC CURVES

