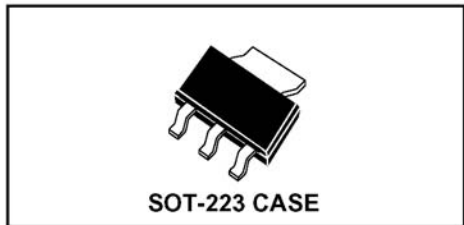


CZTA42 NPN
CZTA92 PNP

COMPLEMENTARY
SILICON HIGH VOLTAGE TRANSISTOR



CentralTM
Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CZTA42, CZTA92 types are complementary surface mount epoxy molded silicon planar epitaxial transistors designed for high voltage applications.

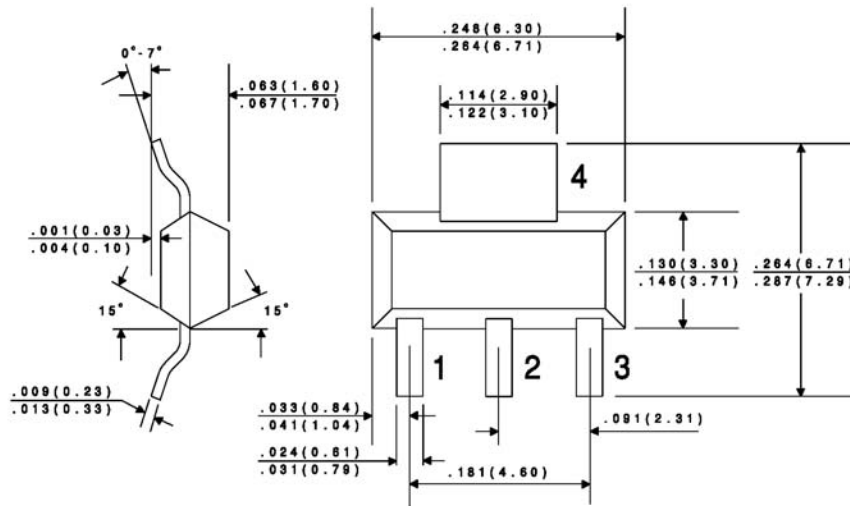
MAXIMUM RATINGS (T_A=25°C)

	SYMBOL	CZTA42	CZTA92	UNITS
Collector-Base Voltage	V _{CB0}	300	300	V
Collector-Emitter Voltage	V _{CEO}	300	300	V
Emitter-Base Voltage	V _{EBO}	6.0	5.0	V
Collector Current	I _C	500		mA
Power Dissipation	P _D	2.0		W
Operating and Storage				
Junction Temperature	T _J , T _{stg}	-65 to +150		°C
Thermal Resistance	Θ _{JA}	62.5		°C/W

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

SYMBOL	TEST CONDITIONS	CZTA42		CZTA92		UNITS
		MIN	MAX	MIN	MAX	
I _{CBO}	V _{CB} =200V		100		250	nA
I _{EBO}	V _{BE} =6.0V		100		-	nA
I _{EBO}	V _{BE} =3.0V		-		100	nA
BV _{CB0}	I _C =100μA	300		300		V
BV _{CEO}	I _C =1.0mA	300		300		V
BV _{EBO}	I _E =100μA	6.0		5.0		V
V _{CE(SAT)}	I _C =20mA, I _B =2.0mA		0.5		0.5	V
V _{BE(SAT)}	I _C =20mA, I _B =2.0mA		0.9		0.9	V
h _{FE}	V _{CE} =10V, I _C =1.0mA	25		25		
h _{FE}	V _{CE} =10V, I _C =10mA	40		40		
h _{FE}	V _{CE} =10V, I _C =30mA	40		25		
f _T	V _{CE} =20V, I _C =10mA, f=100MHz		50		50	MHz
C _{ob}	V _{CB} =20V, I _E =0, f=1.0MHz		3.0		6.0	pF

All dimensions in inches (mm).



LEAD CODE:

- 1) BASE
- 2) COLLECTOR
- 3) EMITTER
- 4) COLLECTOR