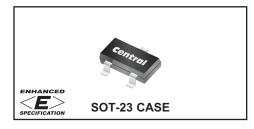
CMPTA42E NPN CMPTA92E PNP

ENHANCED SPECIFICATION

SURFACE MOUNT COMPLEMENTARY HIGH VOLTAGE SILICON TRANSISTORS





www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPTA42E and CMPTA92E are Enhanced versions of the CMPTA42 and CMPTA92 complementary surface mount high voltage transistors.

MARKING CODES: CMPTA42E: C1DE

CMPTA92E: C2DE

FEATURED ENHANCED SPECIFICATIONS:

- ♦ BV_{CBO} from 300V min to 350V min.
- ♦ BV_{CEO} from 300V min to 350V min.
- ♦ hFE from 25 min to 50 min.

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS	
♦ Collector-Base Voltage	V _{CBO}	350	V	
♦ Collector-Emitter Voltage	V _{CEO}	350	V	
Emitter-Base Voltage	V_{EBO}	6.0	V	
Continuous Collector Current	IC	500	mA	
Power Dissipation	P_{D}	350	mW	
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C	
Thermal Resistance	Θ_{JA}	357	°C/W	

$\textbf{ELECTRICAL CHARACTERISTICS:} \ (T_{\mbox{\scriptsize A}} = 25 \mbox{\ensuremath{}^{\circ}} \mbox{\ensurema$

TYP

SYMBOL	TEST CONDITIONS	MIN	CMPTA42E	CMPTA92E	MAX	UNITS
I _{CBO}	V _{CB} =200V				250	nA
I _{EBO}	V _{EB} =3.0V				100	nA
♦ BV _{CBO}	I _C =100μA	350	590	500		V
♦ BV _{CEO}	I _C =1.0mA	350	475	450		V
BVEBO	I _E =100μA	6.0	8.7	9.6		V
♦ V _{CE(SAT)}	I _C =50mA, I _B =5.0mA		125	150	350	mV
V _{BE(SAT)}	I _C =20mA, I _B =2.0mA				0.9	V
♦ h _{FE}	V _{CE} =10V, I _C =1.0mA	50	110	105		
♦ h _{FE}	V _{CE} =10V, I _C =10mA	50	110	105		
♦ h _{FE}	V _{CE} =10V, I _C =30mA	50	110	105		
f _T	V_{CE} =20V, I_{C} =10mA, f=100MHz	50	75	75		MHz
C_{ob}	V_{CB} =20V, I_E =0, f=1.0MHz				6.0	pF

♦ Enhanced specification

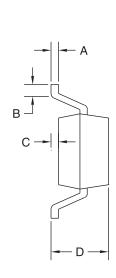
CMPTA42E NPN CMPTA92E PNP

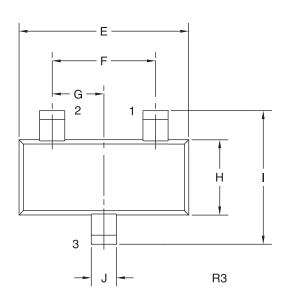
ENHANCED SPECIFICATION

SURFACE MOUNT COMPLEMENTARY HIGH VOLTAGE SILICON TRANSISTORS



SOT-23 CASE - MECHANICAL OUTLINE





LEAD CODE:

- 1) Base
- 2) Emitter
- 3) Collector

MARKING CODES: CMPTA42E: C1DE CMPTA92E: C2DE

DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	0.003	0.007	0.08	0.18			
В	0.006	-	0.15	-			
С	-	0.005	-	0.13			
D	0.035	0.043	0.89	1.09			
E	0.110	0.120	2.80	3.05			
F	0.075		1.90				
G	0.037		0.95				
Н	0.047	0.055	1.19	1.40			
	0.083	0.098	2.10	2.49			
J	0.014	0.020	0.35	0.50			

SOT-23 (REV: R3)

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