

SURFACE MOUNT HIGH VOLTAGE NPN SILICON DARLINGTON TRANSISTOR



Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CZTA27 type is a NPN Silicon Darlington Transistor manufactured by the epitaxial planar process, epoxy molded in a surface mount package, designed for applications requiring extremely high gain and high voltage.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Collector-Emitter Voltage	VCES	60	V
Emitter-Base Voltage	V _{EBO}	10	V
Continuous Collector Current	IС	500	mA
Power Dissipation	PD	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	MIN	MAX	UNITS
Ісво	V _{CB} =50V		100	nA
ICES	V _{CE} =50V		500	nA
IEBO	V _{EB} =10V		100	nA
BVCBO	Ι _C =100μΑ	60		V
BVCES	Ι _C =100μΑ	60		V
V _{CE(SAT)}	I _C =100mA, I _B =0.1mA		1.5	V
V _{BE(ON)}	V _{CE} =5.0V, I _C =100mA		2.0	V
hFE	V _{CE} =5.0V, I _C =10mA	10,000		
h _{FE}	V _{CE} =5.0V, I _C =100mA	10,000		
fт	V _{CE} =5.0V, I _C =10mA, f=100MHz	125		MHz

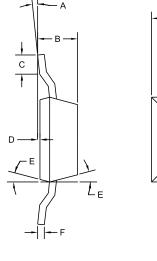
R3 (1-March 2010)

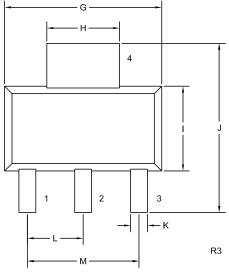




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SOT-223 CASE - MECHANICAL OUTLINE





LEAD CODE: 1) Base 2) Collector 3) Emitter

4) Collector

MARKING: FULL PART NUMBER

BINEItoronto							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
А	0°	10°	0°	10°			
В	0.059	0.071	1.50	1.80			
С	0.018	_	0.45	_			
D	0.000	0.004	0.00	0.10			
Е	15°		15°				
F	0.009	0.014	0.23	0.35			
G	0.248	0.264	6.30	6.70			
Н	0.114	0.122	2.90	3.10			
	0.130	0.146	3.30	3.70			
J	0.264	0.287	6.70	7.30			
K	0.024	0.033	0.60	0.85			
L	0.091		2.30				
М	0.181		4.60				

DIMENSIONS

SOT-223 (REV: R3)

R3 (1-March 2010)

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- Custom bar coding for shipments
- Custom product packing

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- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities

- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

CONTACT US

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