CMPTA77

SURFACE MOUNT PNP SILICON DARLINGTON TRANSISTOR



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPTA77 type is a PNP Silicon Darlington Transistor manufactured by the epitaxial planar process, epoxy molded in a surface mount package, designed for applications requiring extremely high gain.

MARKING CODE: C77



MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Collector-Emitter Voltage	V _{CES}	60	V
Emitter-Base Voltage	V_{EBO}	10	V
Continuous Collector Current	l _C	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

$\textbf{ELECTRICAL CHARACTERISTICS:} \ (T_{\mbox{\scriptsize A}} = 25^{\circ}\mbox{C unless otherwise noted})$

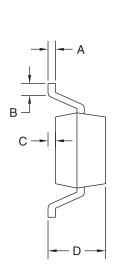
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
ICES	V _{CE} =50V		500	nA
ICBO	V _{CB} =50V		100	nA
I _{EBO}	V _{EB} =10V		100	nA
BV _{CES}	I _C =100μA	60		V
BV CBO	I _C =100μA	60		V
V _{CE(SAT)}	I _C =100mA, I _B =0.1mA		1.5	V
V _{BE(ON)}	V_{CE} =5.0V, I_{C} =100mA		2.0	V
hFE	V_{CE} =5.0V, I_{C} =10mA	10,000		
hFE	V_{CE} =5.0V, I_{C} =100mA	10,000		
f _T	V_{CE} =5.0V, I_{C} =10mA, f=100MHz	125		MHz

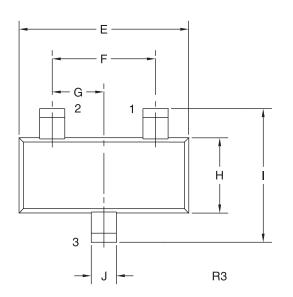
CMPTA77

SURFACE MOUNT PNP SILICON **DARLINGTON TRANSISTOR**



SOT-23 CASE - MECHANICAL OUTLINE





LEAD CODE:

- 1) Base 2) Emitter 3) Collector

MARKING CODE: C77

DIM	ENIOLONI							
	DIMENSIONS							
INCHES		MILLIMETERS						
MIN	MAX	MIN	MAX					
0.003	0.007	0.08	0.18					
0.006	-	0.15	-					
-	0.005	-	0.13					
0.035	0.043	0.89	1.09					
0.110	0.120	2.80	3.05					
0.075		1.90						
0.037		0.95						
0.047	0.055	1.19	1.40					
0.083	0.098	2.10	2.49					
0.014	0.020	0.35	0.50					
	MIN 0.003 0.006 - 0.035 0.110 0.0 0.047 0.083	MIN MAX 0.003 0.007 0.006 0.005 0.035 0.043 0.110 0.120 0.075 0.037 0.047 0.055 0.083 0.098	MIN MAX MIN 0.003 0.007 0.08 0.006 - 0.15 - 0.005 - 0.035 0.043 0.89 0.110 0.120 2.80 0.075 1. 0.037 0. 0.047 0.055 1.19 0.083 0.098 2.10					

SOT-23 (REV: R3)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- · Inventory bonding
- · Consolidated shipping options

- · Custom bar coding for shipments
- · Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free guick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- · 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

REQUESTING PRODUCT PLATING

- 1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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