MPSA75 MPSA76 MPSA77

SILICON PNP DARLINGTON TRANSISTORS

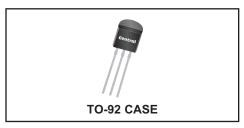


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DESCRIPTION:

The CENTRAL SEMICONDUCTOR MPSA75 series devices are silicon PNP Darlington transistors, manufactured by the epitaxial planar process, designed for applications requiring extremely high gain.

MARKING: FULL PART NUMBER



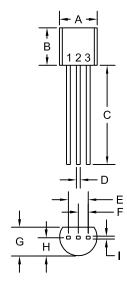
MAXIMUM RATINGS: (T _A =25°C) Collector-Base Voltage Collector-Emitter Voltage Emitter-Base Voltage Continuous Collector Current Power Dissipation Operating and Storage Junction Temperature		SYMBOL VCBO VCES VEBO IC PD TJ, Tstg		MPSA75 50 40 50 40 50 10 500 625 -65 to +150			PSA77 60 60	UNITS V V V mA mW °C
Thermal Resi	istance	Θ	JA		200			°C/W
ELECTRICA SYMBOL ICBO	L CHARACTERISTICS: (T _A =25°C) TEST CONDITIONS V _{CB} =30V	MPS MIN -	SA75 MAX 100	MPS MIN	A76 MAX	MPS MIN	SA77 MAX -	UNITS nA
I _{CBO}	V _{CB} =40V	_	_	-	100	-	_	nA
I _{CBO}	V _{CB} =50V	-	-	-	-	-	100	nA
ICES	V _{CE} =30V	-	500	-	-	-	-	nA
ICES	V _{CB} =40V	-	-	-	500	-	-	nA
ICES	V _{CB} =50V	-	-	-	-	-	500	nA
I _{EBO}	V _{EB} =10V	-	100	-	100	-	100	nA
BV _{CBO}	I _C =100μA	40	-	50	-	60	-	V
BVCES	I _C =100μA	40	-	50	-	60	-	V
V _{CE(SAT)}	I _C =100mA, I _B =0.1mA	-	1.5	-	1.5	-	1.5	V
V _{BE(ON)}	V_{CE} =5.0V, I_B =100mA	-	2.0	-	2.0	-	2.0	V
hFE	V_{CE} =5.0V, I_{C} =10mA	10K	-	10K	-	10K	-	
h _{FE}	V_{CE} =5.0V, I_{C} =100mA	10K	-	10K	-	10K	-	
f_{T}	V_{CE} =5.0V, I_{C} =10mA	125	-	125	-	125	-	MHz

MPSA75 MPSA76 MPSA77





TO-92 CASE - MECHANICAL OUTLINE



DIMENSIONS								
	INCHES		MILLIMETERS					
SYMBOL	MIN	MAX	MIN	MAX				
A (DIA)	0.175	0.205	4.45	5.21				
В	B 0.170 0.2		4.32	5.33				
С	0.500	-	12.70	-				
D	0.016	0.022	0.41	0.56				
Е	0.1	100	2.54					
F	0.0)50	1.27					
G	0.125	0.165	3.18	4.19				
Н	0.080	0.105	2.03	2.67				
	0.0)15	0.38					

TO-92 (REV: R1)

LEAD CODE:

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

MARKING:

R1

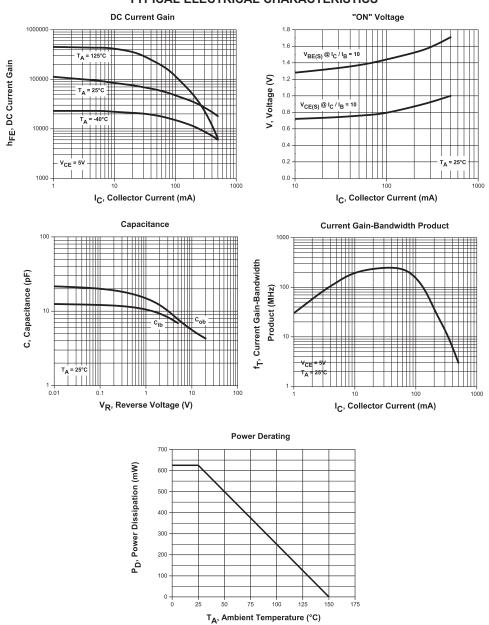
FULL PART NUMBER

MPSA75 MPSA76 MPSA77





TYPICAL ELECTRICAL CHARACTERISTICS





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 quick 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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