

SILICON PNP DARLINGTON TRANSISTORS





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR MPSA62 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)	SYMBOL	MPSA63 MPSA62	MPSA65 MPSA64	UNITS MPSA66	UNITS
Collector-Base Voltage	V _{CBO}	20	30	30	V
Collector-Emitter Voltage	VCES	20	30	30	V
Emitter-Base Voltage	V _{EBO}	10	10	8.0	V
Continuous Collector Current	۱ _C		500		mA
Power Dissipation	PD		625		mW
Operating and Storage Junction Temperature	TJ, Tstg		-65 to +150		°C
Thermal Resistance	Θ_{JA}		200		°C/W

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

		MPS	SA62	MPS	A63	MPS	6A64	MPS	6A65	MPS	A66	
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	UNITS
ICBO	V _{CB} =15V	-	100	-	-	-	-	-	-	-	-	nA
ICBO	V _{CB} =30V	-	-	-	100	-	100	-	100	-	100	nA
IEBO	V _{EB} =10V	-	100	-	100	-	100	-	-	-	-	nA
IEBO	V _{EB} =8.0V	-	-	-	-	-	-	-	100	-	100	nA
BVCES	Ι _C =100μΑ	20	-	30	-	30	-	30	-	30	-	V
VCE(SAT)	I _C =10mA, I _B =10μA	-	1.0	-	-	-	-	-	-	-	-	V
VCE(SAT)	I _C =100mA, I _B =0.1mA	-	-	-	1.5	-	1.5	-	1.5	-	1.5	V
V _{BE(ON)}	V _{CE} =5.0V, I _B =10mA	-	1.4	-	-	-	-	-	-	-	-	V
V _{BE(ON)}	V _{CE} =5.0V, I _B =100mA	-	-	-	2.0	-	2.0	-	2.0	-	2.0	V
h _{FE}	V _{CE} =5.0V, I _C =10mA	20K	-	5K	-	10K	-	50K	-	75K	-	
h _{FE}	V _{CE} =5.0V, I _C =100mA	-	-	10K	-	20K	-	20K	-	40K	-	
fT	V _{CE} =5.0V, I _C =100mA, f=100MHz	-	-	125	-	125	-	-	-	-	-	MHz
fT	V _{CE} =10V, I _C =30mA, f=50MHz	-	-	-	-	-	-	100	-	100	-	MHz
Cob	V _{CB} =10V, I _E =0, f=100kHz	2.5 (ΓYΡ)	2.5 (1	TYP)	2.5 (1	ΓYΡ)	2.5 (1	TYP)	2.5 (1	TYP)	pF
NF	V _{CE} =5.0V, I _C =1.0mA,											
	R _S =100kΩ, f=1.0kHz	2.0 (ΓYΡ)	2.0 (1	TYP)	2.0 (1	ΓΥΡ)	2.0 (1	TYP)	2.0(T	YP)	dB

R1 (18-March 2014)

MPSA62 MPSA65 MPSA63 MPSA66 MPSA64



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TO-92 CASE - MECHANICAL OUTLINE

DIMENSIONS					
	INC	HES	MILLIMETERS		
SYMBOL	MIN	MAX	MIN	MAX	
A (DIA)	0.175	0.205	4.45	5.21	
В	0.170	0.210	4.32	5.33	
С	0.500	-	12.70	-	
D	0.016	0.022	0.41	0.56	
E	0.1	00	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

R1

MARKING: FULL PART NUMBER

R1 (18-March 2014)

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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

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

· Custom product packing

Custom bar coding for shipments

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

REQUESTING PRODUCT PLATING

- If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when 1. 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

Corporate Headquarters & Customer Support Team

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Product End of Life Notification

PDN ID:	PDN01069
Notification Date:	2/06/18
Last Buy Date:	N/A
Last Shipment Date	N/A

Please be advised that Central Semiconductor must immediately discontinue the product(s) listed in the attached PDN notice. We are unable to accept any further orders for these products **unless** we have available inventory on hand.

You may have purchased one or more of the products listed. Please do not hesitate to contact your local Central Semiconductor sales representative with any questions or needs you may have. Central regrets any inconvenience this may cause.

Sincerely,

Central Semiconductor Corp.

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor Corp. will make every effort to offer life-time buy (LTB) opportunities and/or offer replacement devices to existing customers for discontinued devices, however, one or both may not be possible for all devices. Please contact your local Central Semiconductor sales representative for LTB opportunities/additional information.



Product End of Life Notification

PDN ID:	PDN01069
Notification Date:	2/06/18
Last Buy Date:	N/A
Last Shipment Date	N/A

Summary: The MPSA65 PNP Darlington transistor is discontinued and is now classified as End of Life (EOL).

Although Central Semiconductor Corp. makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by various manufacturers, it is an accepted industry practice to discontinue certain devices when customer demand falls below a minimum level of sustainability. Accordingly, the following product(s) have been transitioned to End of Life status as part of Central's Product Management Process. Any replacement product will be noted below. The effective date for placing the last purchase order will be six(6) months from the date of this notice and twelve(12) months from the notice date for final shipments; this may be extended if inventory is available.

Central Part Number	Replacement		
MPSA65	MPSA64	Н	

Central would be happy to assist you by providing additional information or technical data to help locate an alternate source if we have no replacement available. Please email your requests to engineering@centralsemi.com.

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