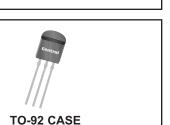
MPSA62 MPSA65 MPSA63 MPSA66 MPSA64

SILICON PNP DARLINGTON TRANSISTORS





www.centralsemi.com

MPSA65

MPSA66

30

30

8.0

UNITS

٧

٧

V

mΑ

mW

°C

°C/W

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

			MPSA63	
MAXIMUM RATINGS: (T _A =25°C)	SYMBOL	MPSA62	MPSA64	
Collector-Base Voltage	V_{CBO}	20	30	
Collector-Emitter Voltage	V _{CES}	20	30	
Emitter-Base Voltage	V_{EBO}	10	10	
Continuous Collector Current	IC		500	
Power Dissipation	P_{D}		625	
Operating and Storage Junction Temperature	T _J , T _{stg}		-65 to +150	
Thermal Resistance	Θ_{LA}		200	

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

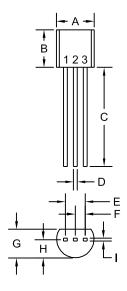
		MPS	6A62	MPS	A63	MPS	6A64	MPS	6A65	MPS	A66	
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	UNITS
ICBO	V _{CB} =15V	-	100	-	-	-	-	-	-	-	-	nA
I _{CBO}	V _{CB} =30V	-	-	-	100	-	100	-	100	-	100	nΑ
I _{EBO}	V _{EB} =10V	-	100	-	100	-	100	-	-	-	-	nA
I _{EBO}	V _{EB} =8.0V	-	-	-	-	-	-	-	100	-	100	nA
BVCES	I _C =100μA	20	-	30	-	30	-	30	-	30	-	V
V _{CE} (SAT)	$I_C=10$ mA, $I_B=10$ μ A	-	1.0	-	-	-	-	-	-	-	-	V
V _{CE} (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
hFE	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	-	
f_{T}	V_{CE} =5.0V, I_{C} =100mA, f=100MHz	<u> </u>	-	125	-	125	-	-	-	-	-	MHz
f_{T}	V_{CE} =10V, I_{C} =30mA, f=50MHz	-	-	-	-	-	-	100	-	100	-	MHz
C_{ob}	V_{CB} =10V, I_E =0, f=100kHz	2.5 (ΓΥΡ)	2.5 (1	YP)	2.5 (7	ΓΥΡ)	2.5 (ΓΥΡ)	2.5 (1	YP)	pF
NF	V _{CE} =5.0V, I _C =1.0mA,											
	R_S =100k Ω , f=1.0kHz	2.0 (ΓΥΡ)	2.0 (7	YP)	2.0 (7	ΓΥΡ)	2.0 (ΓΥΡ)	2.0(T	YP)	dB

MPSA62 MPSA65 MPSA63 MPSA66 MPSA64

SILICON PNP DARLINGTON TRANSISTORS



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		
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

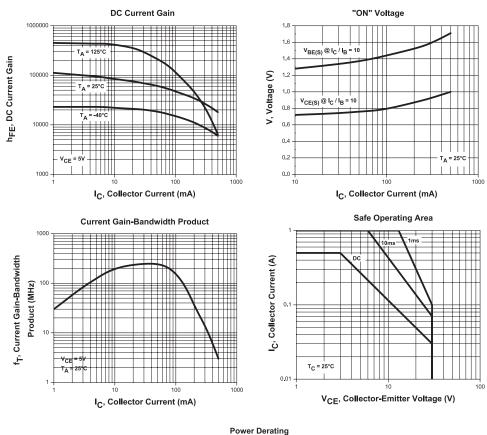
FULL PART NUMBER

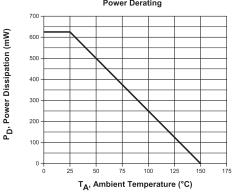
MPSA62 MPSA65 MPSA63 MPSA66 MPSA64





TYPICAL ELECTRICAL CHARACTERISTICS





R2 (30-November 2023)

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

Corporate Headquarters & Customer Support Team

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Main Tel: (631) 435-1110 Main Fax: (631) 435-1824

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www.centralsemi.com

Worldwide Field Representatives: www.centralsemi.com/wwreps

Worldwide Distributors:

www.centralsemi.com/wwdistributors

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centralsemi.com/terms

www.centralsemi.com (001)



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.

CCC785 REV 002



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.

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.

CCC785 REV 002