MPSA62 MPSA65 MPSA63 MPSA66 MPSA64

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.





MAXIMUM RATINGS: (T _A =25°C) Collector-Base Voltage	SYMBOL V _{CBO}	MPSA63 MPSA62 20	MPSA65 MPSA64 30	UNITS MPSA66 30	UNITS
Collector-Emitter Voltage	VCES	20	30	30	V
Emitter-Base Voltage	V_{EBO}	10	10	8.0	V
Continuous Collector Current	IC		500		mA
Power Dissipation	P_{D}		625		mW
Operating and Storage Junction Temperature	T _J , T _{stg}		-65 to +150		°C
Thermal Resistance	$\Theta_{\sf JA}$		200		°C/W

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

MPSA62 MPSA64 MPSA65 MPSA66												
SYMBOL	TEST CONDITIONS		MAX	MIN			MAX		MAX		MAX	UNITS
I _{CBO}	V _{CB} =15V	-	100	-	-	-	-	-	-	-	-	nA
I _{CBO}	V _{CB} =30V	-	-	-	100	-	100	-	100	-	100	nA
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
VCE(SAT)	I_C =10mA, I_B =10 μ A	-	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
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	-	-	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 (ΓYP)	2.5 (1	YP)	2.5 (1	ΓΥΡ)	2.5 (1	ΓYP)	2.5 (1	YP)	pF
NF	V_{CE} =5.0V, I_{C} =1.0mA, R_{S} =100k Ω , f =1.0kHz	2.0 (TVD)	2.0 (T	VD)	2 0 /7	LAD)	2.0 (1	TVD)	2.0(T	VD)	dB
	115-100822, 1-1.08112	2.0 (111')	2.0 (1	11')	2.0 (1	1 11-)	2.0 (1	111')	2.0(1	11)	ub

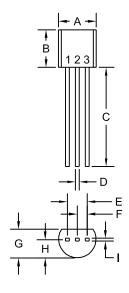
MPSA62 MPSA65 MPSA63 MPSA66

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	0.100		2.54			
F	0.050		1.27			
G	0.125	0.165	3.18	4.19		
Н	0.080	0.105	2.03	2.67		
	0.015		0.38			

TO-92 (REV: R1)

LEAD CODE:

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

R1

MARKING:

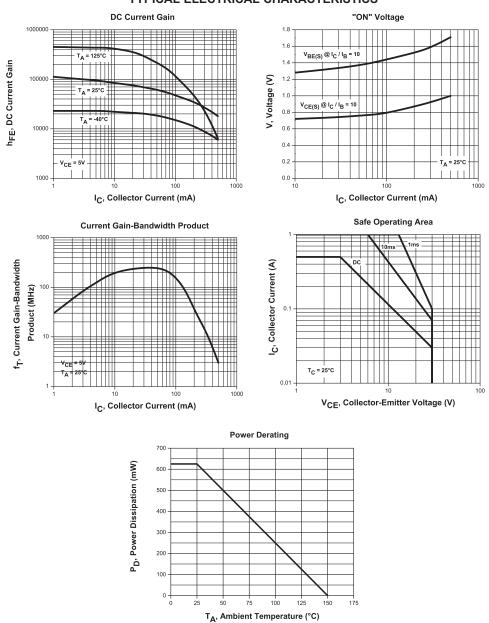
FULL PART NUMBER

MPSA62 MPSA65 MPSA63 MPSA66 MPSA64



SILICON PNP DARLINGTON TRANSISTORS

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 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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Worldwide Distributors:

www.centralsemi.com/wwdistributors

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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.

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.

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CCC785 REV 002