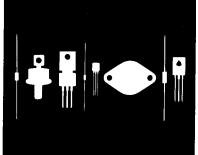
Central
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145 Adams Avenue

Hauppauge, New York 11788



MJ2500 MJ2501 PNP MJ3000 MJ3001 NPN

SILICON COMPLEMENTARY TRANSISTORS
POWER DARLINGTON
10 AMPERES, 60-80 VOLTS

JEDEC TO-3 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR MJ2500, MJ3000 Series are medium power Complementary Silicon Darlington Transistors designed for general purpose amplifier applications as complementary output devices.

MAXIMUM RATINGS (T_C=25°C)

<u>s</u>	YMBOL	MJ2500 MJ3000	MJ2501 MJ3001	UNIT	
Collector-Base Voltage	V _{СВО}	60	80	V	
Collector-Emitter Voltage	VCEO	60	80	V	
Emitter-Base Voltage	V _{EBO}	5.0	5.0	V	
Collector Current	Ic	10	10	Α	
Base Current	I B	0.2	0.2	Α	
Power Dissipation Operating and Storage	P_{D}	150	150	W	
Junction Temperature	T _J , T _{stg}	-55 TO		.oc	
Thermal Resistance, Junction TO Case	өეС	1.17		oc/w	

ELECTRICAL CHARACTERISTICS (T_C=25°C unless otherwise noted)

SYMBOL TEST CONDITIONS		MJ2500 MJ3000		MJ2501 MJ3001			
	TEST CONDITIONS	MIN	MAX	MIN	MAX	UNIT	
						mA	
^I CER	V_{CE} =Rated, R_{BE} =1,000 Ω		1.0		1.0	mA	
I CER	V_{CE} =Rated, R_{BE} =1,000 Ω , T_{C} =150 O C		5.0		5.0	mΑ	
CEO	VCE=½XRated VCE		1.0		1.0	mΑ	
I _{EBO}	V _{EB} =5.0V		2.0		2.0	n A	
BYCEO	I _C =100mA	60		80		٧	
VCE(SAT)	I _C =5.0A, I _B =20mA		2.0		2.0	٧	
VCE(SAT)	Ic=10A, I _B =50mA		4.0		4.0	V	
VBE (on)	VCE=3.0V, IC=5.0A		3.0		3.0	V	
hfe	VcE=3.0V, Ic=5.0A	1000	-	1000	-	_	

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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