

COMPLEMENTARY SILICON POWER TRANSISTORS



Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N3055 and MJ2955 are complementary silicon power transistors manufactured by the epitaxial base process, mounted in a hermetically sealed metal case, designed for general purpose switching and amplifier applications.

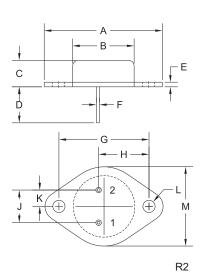
MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T _C =25°C)		SYMBOL		UNITS			
Collector-Base Voltage		V _{CBO}	100	V			
Collector-Emitter Voltage		VCER	70	V			
Collector-Emitter Voltage		V _{CEO}	60	V			
Emitter-Base Voltage		V _{EBO}	7.0	V			
Continuous Collector Current		ΙC	15	А			
Continuous Base Current		۱ _B	7.0	А			
Power Dissipation		PD	115	W			
Operating and Storage Junction Temperature		т _Ј , т _{stg}	-65 to +200	°C			
Thermal Resistance		ΘJC	1.52	°C/W			
ELECTRICAL CHARACTERISTICS: (T _C =25°C unless otherwise noted)							
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS			
ICEV	V _{CE} =100V, V _{EB} =1.5V		1.0	mA			
ICEV	V _{CE} =100V, V _{EB} =1.5V, T _C =150°C	;	5.0	mA			
ICE0	V _{CE} =30V		0.7	mA			
IEBO	V _{EB} =7.0V		5.0	mA			
BVCEO	I _C =200mA	60		V			
BVCER	I _C =200mA, R _{BE} =100Ω	70		V			
V _{CE(SAT)}	I _C =4.0A, I _B =400mA		1.1	V			
V _{CE(SAT)}	I _C =10A, I _B =3.3A		3.0	V			
V _{BE(ON)}	V _{CE} =4.0V, I _C =4.0A		1.5	V			
h _{FE}	V _{CE} =4.0V, I _C =4.0A	20	70				
h _{FE}	V _{CE} =4.0V, I _C =10A	5.0					
h _{fe}	V _{CE} =4.0V, I _C =1.0A, f=1.0kHz	15	120				
fT	V _{CE} =10V, I _C =0.5A, f=1.0MHz	2.5		MHz			
^f hfe	V _{CE} =4.0V, I _C =1.0A, f=1.0kHz	10		kHz			
I _{s/b}	V _{CE} =40V, t=1.0s	2.87		А			





COMPLEMENTARY SILICON POWER TRANSISTORS



DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
А	1.516	1.573	38.50	39.96			
B (DIA)	0.748	0.875	19.00	22.23			
С	0.250	0.450	6.35	11.43			
D	0.433	0.516	11.00	13.10			
E	0.054	0.065	1.38	1.65			
F	0.035	0.045	0.90	1.15			
G	1.177	1.197	29.90	30.40			
Н	0.650	0.681	16.50	17.30			
J	0.420	0.440	10.67	11.18			
K	0.205	0.225	5.21	5.72			
L (DIA)	0.151	0.172	3.84	4.36			
М	0.984	1.050	25.00	26.67			
TO-3 (REV R2)							

TO-3 (REV: R2)

LEAD CODE: 1) Base 2) Emitter Case) Collector

> MARKING: FULL PART NUMBER

www.centralsemi.com

TO-3 CASE - MECHANICAL OUTLINE

R1 (26-July 2013)

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

Central Semiconductor Corp. 145 Adams Avenue Hauppauge, NY 11788 USA Main Tel: (631) 435-1110 Main Fax: (631) 435-1824 Support Team Fax: (631) 435-3388 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

