2N3055 NPN MJ2955 PNP

COMPLEMENTARY SILICON POWER TRANSISTORS



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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



V_{CE}=40V, t=1.0s

I_{s/b}

MAXIMUM RATINGS: (T _C =25°C)		SYMBOL		UNITS				
Collector-Base Voltage		V_{CBO}	100	V				
Collector-Emitter Voltage		V _{CER}	70	V				
Collector-Emitter Voltage		VCEO	60	V				
Emitter-Base Voltage		V_{EBO}	7.0	V				
Continuous Collector Current		$I_{\mathbb{C}}$	15	Α				
Continuous Base Current		I _B	7.0	Α				
Power Dissipation		P_{D}	115	W				
Operating and Storage Junction Temperature		T _J , T _{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				
ICEO	V _{CE} =30V		0.7	mA				
I _{EBO}	V _{EB} =7.0V		5.0	mA				
BV CEO	I _C =200mA	60		V				
BVCER	I_C =200mA, R_{BE} =100 Ω	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				
hFE	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					
f_{T}	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				

2.87

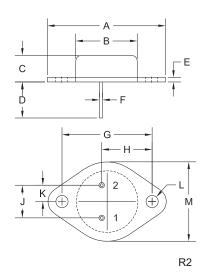
Α

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TO-3 CASE - MECHANICAL OUTLINE



DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	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			
Е	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)

LEAD CODE: 1) Base

- 2) Emitter

Case) Collector

MARKING:

FULL PART NUMBER

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 quick 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

CONTACT US

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