2N6050 2N6051 2N6052 PNP 2N6057 2N6058 2N6059 NPN

COMPLEMENTARY SILICON DARLINGTON POWER TRANSISTORS





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N6050, 2N6057 series types are complementary silicon Darlington power transistors, manufactured by the epitaxial base process, designed for high gain amplifier and switching applications.

MARKING: FULL PART NUMBER

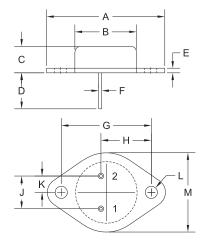
MAXIMUM RATINGS: (T _C =25°C) Collector-Base Voltage Collector-Emitter Voltage Emitter-Base Voltage Continuous Collector Current Peak Collector Current Continuous Base Current Power Dissipation Operating and Storage Junction Temperature Thermal Resistance		SYMBOL VCBO VCEO VEBO IC ICM IB PD TJ, Tstg ©JC	2N6050 2N6057 60 60	2N6051 2N6058 80 80 5.0 12 20 0.2 150 -65 to +200 1.17	2N6052 2N6059 100 100	UNITS V V A A W °C °C/W
SYMBOL TE ICEV VC ICEV VC ICEO VC ICEO ICEO	ARACTERISTICS: (T _C =25°C unlost to conditions) E=Rated V _{CEO} , V _{EB} =1.5V, T _C =1 E=1/2Rated V _{CEO} , V _{EB} =1.5V, T _C =1 E=1/2Rated V _{CEO} B=5.0V =100mA, (2N6050, 2N6057) =100mA, (2N6051, 2N6058) =100mA, (2N6052, 2N6059) =6.0A, I _B =24mA =12A, I _B =120mA =12A, I _B =120mA =2A, I _B =120mA =3.0V, I _C =6.0A E=3.0V, I _C =6.0A E=3.0V, I _C =5.0A, f=1.0kHz E=3.0V, I _C =5.0A, f=1.0MHz E=3.0V, I _C =5.0A, f=1.0MHz E=3.0V, I _C =5.0A, f=1.0MHz E=10V, I _C =5.0A, f=100kHz (PNP type) E=10V, I _C =0, f=100kHz (NPN type)	MIN 150°C 60 80 100 750 100 300 4.0	e noted)	MAX 0.5 5.0 1.0 2.0 2.0 3.0 4.0 2.8 18K		UNITS mA mA mA V V V V V V N MHz pF

2N6050 2N6051 2N6052 **PNP** 2N6057 2N6058 2N6059 NPN

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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)

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 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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