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

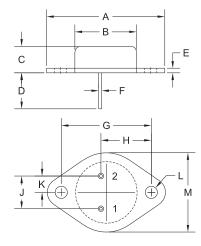
| MAXIMUM RATINGS: (T _C =25°C) Collector-Base Voltage Collector-Emitter Voltage Emitter-Base Voltage Continuous Collector Current Peak Collector Current Continuous Base Current Power Dissipation Operating and Storage Junction Temperature Thermal Resistance | | SYMBOL VCBO VCEO VEBO IC ICM IB PD TJ, 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

COMPLEMENTARY SILICON DARLINGTON POWER TRANSISTORS



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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