

CentralTM Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

2N6576
2N6577
2N6578

NPN SILICON POWER
DARLINGTON TRANSISTOR

JEDEC TO-3 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 2N6576 series types are NPN Silicon Power Darlington Transistors designed for general purpose switching applications.

MAXIMUM RATINGS (T_C=25°C)

| | SYMBOL | 2N6576 | 2N6577 | 2N6578 | UNITS |
|---|-----------------------------------|--------|-------------|--------|-------|
| Collector-Base Voltage | V _{CBO} | 60 | 90 | 120 | V |
| Collector-Emitter Voltage | V _{CEO} | 60 | 90 | 120 | V |
| Emitter-Base Voltage | V _{EBO} | | 7.0 | | V |
| Continuous Collector Current | I _C | | 15 | | A |
| Peak Collector Current | I _{CM} | | 30 | | A |
| Continuous Base Current | I _B | | 250 | | mA |
| Peak Base Current | I _{BM} | | 500 | | mA |
| Continuous Emitter Current | I _E | | 15.25 | | A |
| Peak Emitter Current | I _{EM} | | 30.50 | | A |
| Power Dissipation | P _D | | 120 | | W |
| Operating and Storage Junction Temperature | T _J , T _{stg} | | -65 to +200 | | °C |
| Thermal Resistance | θ _{JC} | | 1.46 | | °C/W |

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

| SYMBOL | TEST CONDITIONS | MIN | MAX | UNITS |
|----------------------|--|------|-------|-------|
| I _{CBO} | V _{CB} =Rated V _{CBO} | | 500 | μA |
| I _{CEV} | V _{CEV} =Rated V _{CEO} , V _{BE(off)} =1.5V | | 5.0 | mA |
| I _{CER} | V _{CER} = Rated V _{CEO} , R _{BE} =10kΩ, T _C =150°C | | 5.0 | mA |
| I _{CEO} | V _{CE} = Rated V _{CEO} | | 1.0 | mA |
| BV _{CEO} | I _C =200mA (2N6576) | 60 | | V |
| BV _{CEO} | I _C =200mA (2N6577) | 90 | | V |
| BV _{CEO} | I _C =200mA (2N6578) | 120 | | V |
| V _{CE(SAT)} | I _C =10A, I _B =100mA | | 2.8 | V |
| V _{CE(SAT)} | I _C =15A, I _B =150mA | | 4.0 | V |
| V _{BE(SAT)} | I _C =10A, I _B =100mA | | 3.5 | V |
| V _{BE(SAT)} | I _C =15A, I _B =150mA | | 4.5 | V |
| h _{FE} | V _{CE} =3.0V, I _C =400mA | 200 | | |
| h _{FE} | V _{CE} =3.0V, I _C =4.0A | 2000 | 20000 | |
| h _{FE} | V _{CE} =3.0V, I _C =10A | 500 | 5000 | |
| h _{FE} | V _{CE} =4.0V, I _C =15A | 100 | | |



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