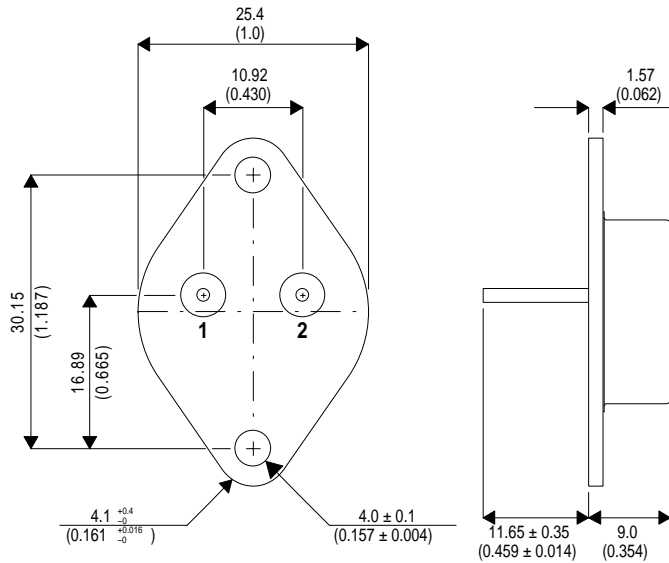


MECHANICAL DATA

Dimensions in mm (inches)



Tolerance ± 0.127 (0.005) unless otherwise stated

TO-3

Pin 1 – Base Pin 2 – Emitter Case – Collector

**COMPLEMENTARY
DARLINGTON
POWER TRANSISTOR**

FEATURES

- HIGH DC CURRENT GAIN
 $H_{FE} = 1000 \text{ Min @ } I_C = 25A$
 $H_{FE} = 400 \text{ Min @ } I_C = 50A$
- CURVES TO 100A (Pulsed)
- DIODE PROTECTION TO RATED I_C
- MONOLITHIC CONSTRUCTION WITH BUILT-IN BASE – EMITTER SHUNT RESISTOR
- JUNCTION TEMPERATURE TO +200°C

APPLICATIONS

For use as output devices in complementary general purpose amplifier applications.

ABSOLUTE MAXIMUM RATINGS

($T_{case} = 25^\circ C$ unless otherwise stated)

		MJ11028	MJ11030	MJ11032
		MJ11029	MJ11031	MJ11033
V_{CEO}	Collector – Emitter Voltage	60V	90V	120V
V_{CBO}	Collector – Base Voltage	60V	90V	120V
V_{EBO}	Emitter – Base Voltage		5V	
I_C	Continuous Collector Current		50A	
I_{CM}	Peak Collector Current		100A	
I_B	Base Current		2A	
P_{tot}	Total Dissipation at $T_{case} = 25^\circ C$		300W	
	Derate above 25°C		1.71W/°C	
T_{STG}, T_J	Operating and Storage Junction Temperature Range		-55 to +175°C	