

# **isc** Silicon NPN Power Transistor

# 2SC2461

### **DESCRIPTION**

- With TO-3 Package
- · Complementary to 2SA1051
- Minimum Lot-to-Lot variations for robust device performance and reliable operation.

# 3 PIN 1.Base 2.Emitter 3.Collestor(case) TO-3 Package

#### **APPLICATIONS**

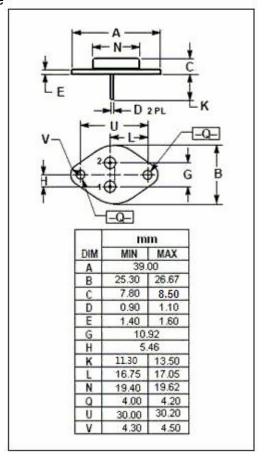
Recommended for 10W high-fidelity audio frequency amplifie output stage

## ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

ABOOLOTE IMAXIMOM TATINGO(Ta 200)							
SYMBOL	PARAMETER	VALUE	UNIT				
V <sub>CBO</sub>	Collector-Base Voltage	150	V				
V <sub>CEO</sub>	Collector-Emitter Voltage	150	V				
V <sub>EBO</sub>	Emitter-Base Voltage	5	V				
Ic	Collector Current-Continuous	15	Α				
Pc	Collector Power Dissipation  @ Tc=25°C	150	W				
TJ	Junction Temperature	150	$^{\circ}\!\mathbb{C}$				
T <sub>stg</sub>	Storage Temperature Range	-65~200	$^{\circ}\!\mathbb{C}$				

#### THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R <sub>th j-c</sub>	Thermal Resistance, Junction to Case	0.833	°C/W





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#### **ELECTRICAL CHARACTERISTICS**

T<sub>C</sub>=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = 5A; I <sub>B</sub> = 0.5A		2.0	V
V <sub>BE(on)</sub>	Base-Emitter On Voltage	I <sub>C</sub> = 5A; V <sub>CE</sub> = 5V		2.0	٧
Ісво	Collector Cutoff Current	V <sub>CB</sub> =150V;I <sub>B</sub> = 0		50	uA
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = 5V; I <sub>C</sub> =0		10	uA
h <sub>FE-1</sub>	DC Current Gain	I <sub>C</sub> = 1A; V <sub>CE</sub> = 5V	80	160	
h <sub>FE-2</sub>	DC Current Gain	I <sub>C</sub> = 5A; V <sub>CE</sub> = 5V	40		



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