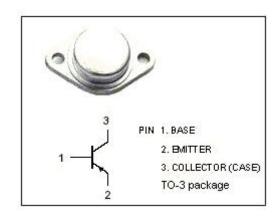


# **isc Silicon PNP Power Transistor**

MJ4502

### **DESCRIPTION**

- High DC Current Gain: h<sub>FE</sub>= 25-100@I<sub>C</sub>= -7.5A
- · Excellent Safe Operating Area
- Complement to the NPN MJ802
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



## **APPLICATIONS**

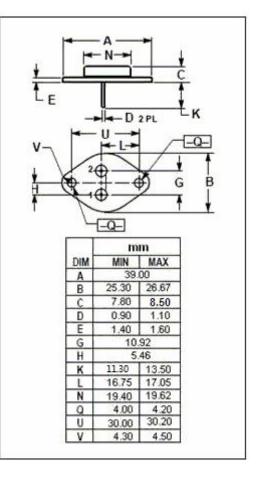
 Designed for use as an output device in complementary audio amplifiers to 100-Watts music power per channel.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>CBO</sub>	Collector-Base Voltage	-100	V
V <sub>CEO</sub>	Collector-Emitter Voltage	-90	V
V <sub>EBO</sub>	Emitter-Base Voltage	-4	V
Ic	Collector Current-Continuous	-30	Α
I <sub>B</sub>	Base Current-Continuous	-7.5	А
Pc	Collector Power Dissipation@T <sub>C</sub> =25°C	200	W
Tj	Junction Temperature	150	$^{\circ}$
T <sub>stg</sub>	Storage Temperature Range	-65~200	$^{\circ}$

# THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R <sub>th j-c</sub>	Thermal Resistance,Junction to Case	0.875	°C/W





## **isc Silicon PNP Power Transistor**

MJ4502

#### **ELECTRICAL CHARACTERISTICS**

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
V <sub>CEO(SUS)</sub>	Collector-Emitter Sustaining Voltage	I <sub>C</sub> = -50mA ;I <sub>B</sub> = 0	-90			V
V <sub>CE</sub> (sat)	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -7.5A; I <sub>B</sub> = -0.75A			-0.8	V
V <sub>BE</sub> (sat)	Base-Emitter Saturation Voltage	I <sub>C</sub> = -7.5A; I <sub>B</sub> = -0.75A			-1.3	V
V <sub>BE(on)</sub>	Base-Emitter On Voltage	I <sub>C</sub> = -7.5A ; V <sub>CE</sub> = -2V			-1.3	V
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = -100V; I <sub>E</sub> = 0,T <sub>C</sub> = 150°C			-1.0	mA
I <sub>EBO</sub>	Emitter Cutoff current	V <sub>EB</sub> = -4V; I <sub>C</sub> = 0			-1.0	mA
h <sub>FE</sub>	DC Current Gain	I <sub>C</sub> = -7.5A; V <sub>CE</sub> = -2V	25		100	
f⊤	Current-Gain—Bandwidth Product	I <sub>C</sub> = -1A;V <sub>CE</sub> = -10V;f= 1.0MHz	2.0			MHz

## **NOTICE:**

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