16 AMPERES COMPLEMENTARY SILICONPOWER TRANSISTORS 250 VOLTS, 250 WATTS

The MJ21195G and MJ21196G utilize Perforated Emitter technology and are specifically designed for high power audio output, disk head positioners and linear applications.

Features

Total Harmonic Distortion Characterized
High DC Current Gain
Excellent Gain Linearity
High SOA
These Devices are Pb-Free and are RoHS Compliant*

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Collector-Emitter Voltage	V _{CEO}	250	Vdc
Collector-Base Voltage	V _{CBO}	400	Vdc
Emitter-Base Voltage	V _{EBO}	5	Vdc
Collector-Emitter Voltage - 1.5V	V _{CEX}	400	Vdc
Collector Current – Continuous	I _C	16	Adc
Collector Current – Peak (Note 1)	I _{CM}	30	Adc
Base Current – Continuous	I _B	5	Adc
Total Device Dissipation @ T _C = 25°C Derate above 25°C	P _D	250 1.43	W W/°C
Operating and Storage Junction Temperature Range	T _J , T _{stg}	-65 to +200	°C

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

1. Pulse Test: Pulse Width = 5 μs, Duty Cycle 10%.

THERMAL CHARACTERISTICS

Characteristics	Symbol	Max	Unit
Thermal Resistance, Junction-to-Case	$R_{\theta JC}$	0.7	°C/W



TO-204AA (TO-3) CASE 1-07 STYLE 1

MARKING DIAGRAM



MJ2119x = Device Code x = 5 or 6

G = Pb-Free Package A = Assembly Location

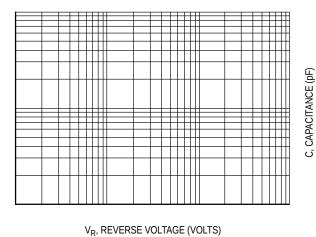
Y = Year WW = Work Week MEX = Country of Origin

ORDERING INFORMATION

Device	Package	Shipping
MJ21195G	TO-204 (Pb-Free)	100 Units / Tray
MJ21196G	TO-204 (Pb-Free)	100 Units / Tray

^{*}For additional information on our Pb–Free strategy and soldering details, please download the **onsemi** Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

 I_B



 V_R , REVERSE VOLTAGE (VOLTS)

Figure 14. MJ21195 Typical Capacitance

Figure 15. MJ21196 Typical Capacitance

