

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 – 1.5 V	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 Power Dissipation @ $T_C = 25\text{ C}$ Derate Above 25 C	P_D	250 1.43	

MJ21193 PNP MJ21194 NPN

ELECTRICAL CHARACTERISTICS ($T_C = 25\text{ C}$ unless otherwise noted)

Characteristic	Symbol	Min	Typ	Max	Unit
----------------	--------	-----	-----	-----	------

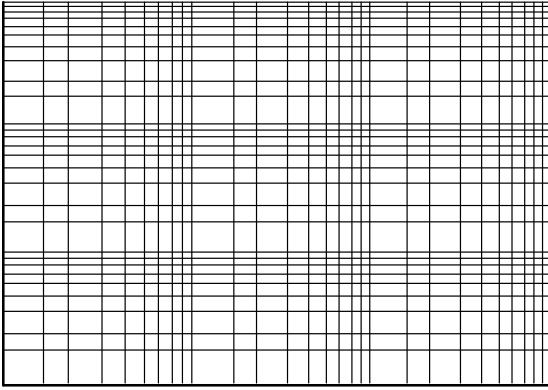
OFF CHARACTERISTICS

Collector

MJ21193 PNP MJ21194 NPN

MJ21193 PNP MJ21194 NPN

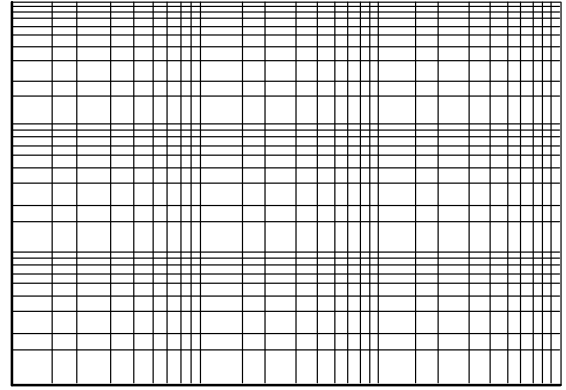
C_i CAPACITANCE (pF)



V_R, REVERSE VOLTAGE (VOLTS)

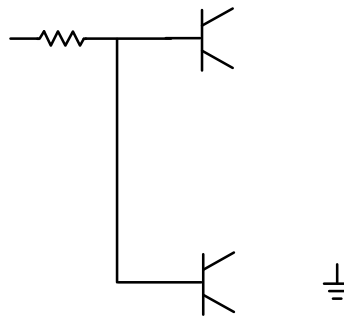
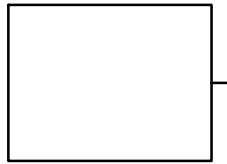
Figure 14. MJ21193 Typical Capacitance

C_i CAPACITANCE (pF)



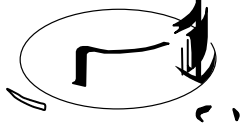
V_R, REVERSE VOLTAGE (VOLTS)

Figure 15. MJ21194 Typical Capacitance



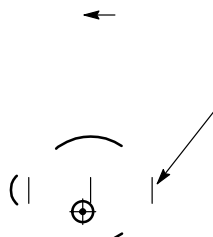
E6: 1. A E 2. E E CASE: C EC	E7: 1. A DE 2. E CASE: CA DE	E8: 1. CA DE #1 2. CA DE #2 CASE: A DE	E9: 1. A DE #1 2. A DE #2 CASE: CA DE
---------------------------------------	---------------------------------------	---	--

TO-204 (TO-3)



S A 1:1

E8
 1. D E A D E A C E A
 14.5, 1982.
 2. C D E : C
 3. A E A D E A CA ED
 EFE E CED -204AA E A



onsemi, **onsemi**, and other names, marks, and brands are registered and/or common law trademarks of Semiconductor Components Industries, LLC dba "**onsemi**" or its affiliates and/or subsidiaries in the United States and/or other countries. **onsemi** owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property. A listing of **onsemi**'s product/patent coverage may be accessed at www.onsemi.com/site/pdf/Patent-Marking.pdf. **onsemi** reserves the right to make changes at any time to any products or information herein, without notice. The information herein is provided "as-is" and **onsemi** makes no warranty, representation or guarantee regarding the accuracy of the information, product features, availability, functionality, or suitability of its products for any particular purpose, nor does **onsemi** assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. Buyer is responsible for its products and applications using **onsemi**
