



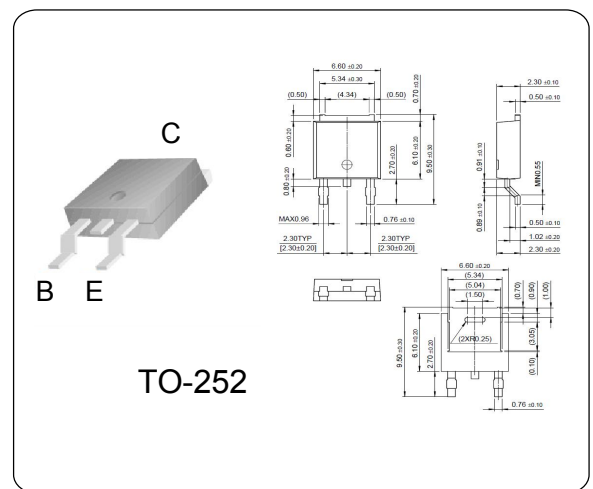
Hammer Drivers, Audio Amplifiers Applications

Power Linear and Switching Applications

- 1、 Medium Power Darlington TR
- 2、 Complement to MJD127

ABSOLUTE MAXIMUM RATINGS (Ta = 25 °C)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V_{CBO}	100	V
Collector-Emitter Voltage	V_{CEO}	100	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	I_C	8.0	A
Base Current	I_B	0.1	A
Total Dissipation at	P_{tot}	50	W
Max. Operating Junction Temperature	T_j	150	°C
Storage Temperature	T_{stg}	-55~150	°C



ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Collector Cut-off Current	I_{CEO}	$V_{CE} = 100V, I_B = 0$	—	—	0.5	mA
Collector Cut-off Current	I_{CBO}	$V_{CB} = 100V, I_E = 0$	—	—	0.2	mA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = 5.0V, I_C = 0$	—	—	2.0	mA
Collector-Emitter Sustaining Voltage	V_{CEO}	$I_C = 30mA, I_B = 0$	100	—	—	V
DC Current Gain	$h_{FE(1)}$	$V_{CE} = 5.0V, I_C = 2.0A$	1000	—	—	
	$h_{FE(2)}$	$V_{CE} = 3.0V, I_C = 3.0A$	1000	—	—	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 3.0A, I_B = 12mA$	—	—	1.5	V
		$I_C = 5.0A, I_B = 20mA$	—	—	2.5	
Base-Emitter Voltage	$V_{BE(on)}$	$V_{CE} = 3.0V, I_C = 3.0A$	—	—	2.0	V