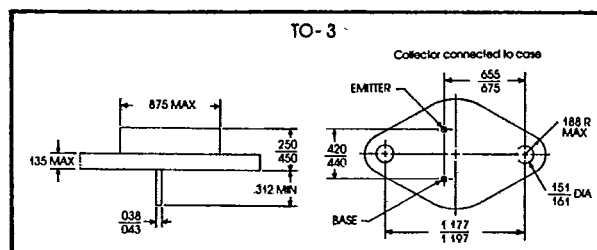


NPN/PNP COMPLEMENTARY DARLINGTON POWER AMPLIFIERS

2N6282 thru
2N6287

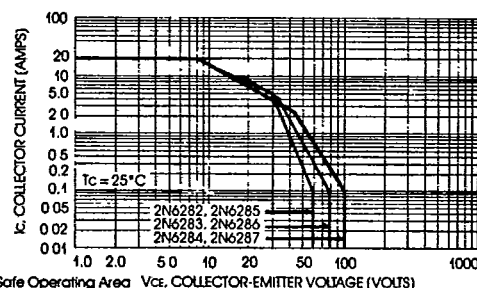
GEOMETRY 509-1



- NPN 2N6282-84
- PNP 2N6285-87
- High Gain
- Monolithic Construction

MAXIMUM RATINGS

PARAMETER	UNIT	2N6282 2N6285	2N6283 2N6286	2N6284 2N6287	UNIT
Collector-Emitter Voltage	V _{CEO}	60	80	100	V
Collector-Base Voltage	V _{CBO}	60	80	100	V
Emitter-Base Voltage	V _{EB0}	5	5	5	V
Collector Current-Continuous		20			A
-Peak		40			A
Base Current		0.5			A
Power Dissipation @T _C ≤25°C		160			W
Linear Derating Factor		0.915			W/°C
Storage & Operating Junction Temperature Range		-65°C to +200°C			
Lead Temperature (1/16" from case)		+235°C			



ELECTRICAL CHARACTERISTICS AT 25°C CASE TEMPERATURE

PARAMETER	SYMBOL	TEST CONDITIONS	2N6282 2N6285		2N6283 2N6286		2N6284 2N6287		UNIT
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	
Collector Cutoff Current (Emitter diode is reverse biased)	ICEX	VCE = 60V		5.0					mA
		VCE = 80V				5.0			
		VCE = 100V					5.0		
Collector Cutoff Current (Emitter diode is reverse biased)	ICEX	VCE = 60V		0.5					mA
		VCE = 80V				0.5			
		VCE = 100V					0.5		
Emitter Cutoff Current	IEBO	VEB = 5V		2.0		2.0		2.0	mA
Collector-Emitter Open Base* Sustain Voltage	VCE(sus)	IB = 0, IC = 100mA	60		80		100		V
Collector Cutoff Current, Base Open	ICEO	IB = 0, VCE = 30V		1.0					mA
		IB = 0, VCE = 40V				1.0			
		IB = 0, VCE = 50V					1.0		
DC Forward Current Transfer Ratio*	hFE	IC = 20A, VCE = 3V	100		100		100		
		IC = 10A, VCE = 3V	750	18,000	750	18,000	750	18,000	
Collector-Emitter Saturation Voltage*	VCE(sat)	IC = 20A, IB = 0.2A		3.0		3.0		3.0	V
		IC = 10A, IB = 40mA		2.0		2.0		2.0	
Base-Emitter Voltage*	VBE	IC = 10A, VCE = 3V		2.8		2.8		2.8	V
Base-Emitter Saturation Voltage*	VBE(sat)	IC = 20A, IB = 200mA		4.0		4.0		4.0	V
High Frequency Beta	hfe	VCE = 3V, IC = 10A, f = 1MHz	4		4		4		
Low Frequency Beta	hfe	VCE = 3V, IC = 10A, f = 1kHz	300		300		300		
			2N6282, 2N6283 2N6284		2N6285, 2N6286 2N6287				UNIT
			MIN.	MAX.	MIN.		MAX.		
Common Base Output Capacitance	Cob	VCB = 10V, IE = 0A, f = 0.1MHz		400			600		pF

*Pulse Width <300μs; Duty Cycle <2%



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