

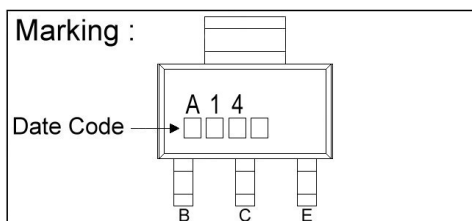
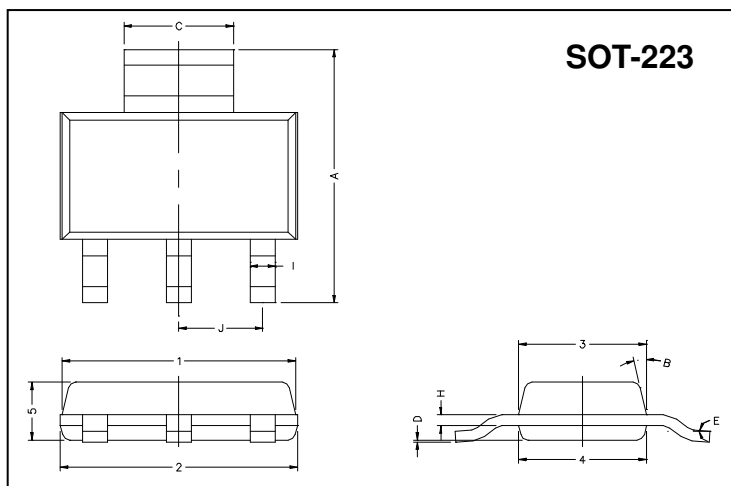
GLA14

NPN EPITAXIAL PLANAR TRANSISTOR

Description

The GLA14 is a Darlington amplifier transistor designed for applications requiring extremely high current gain.

Package Dimensions



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	6.70	7.30	B	13°TYP.	
C	2.90	3.10	J	2.30 REF.	
D	0.02	0.10	1	6.30	6.70
E	0°	10°	2	6.30	6.70
I	0.60	0.80	3	3.30	3.70
H	0.25	0.35	4	3.30	3.70
			5	1.40	1.80

Absolute Maximum Ratings at Ta = 25°C

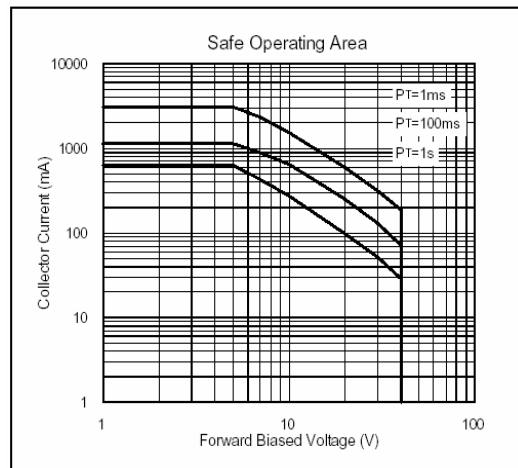
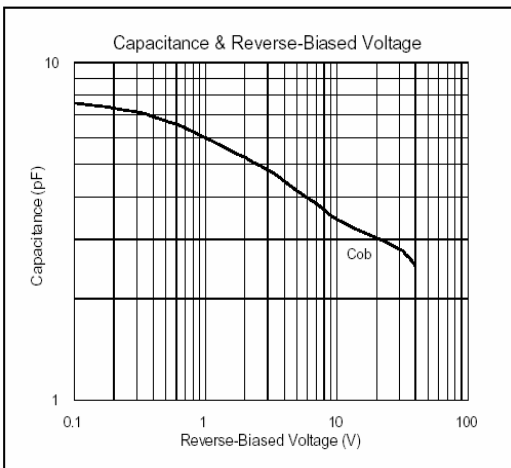
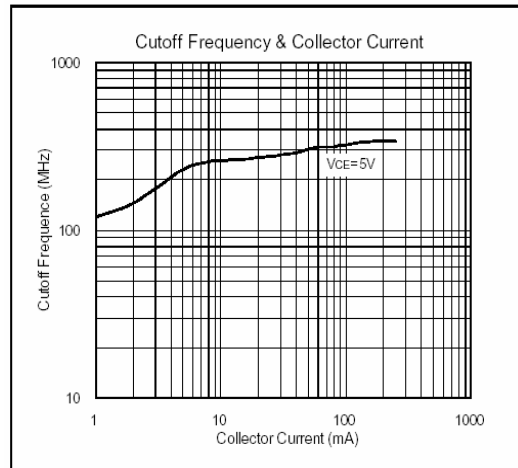
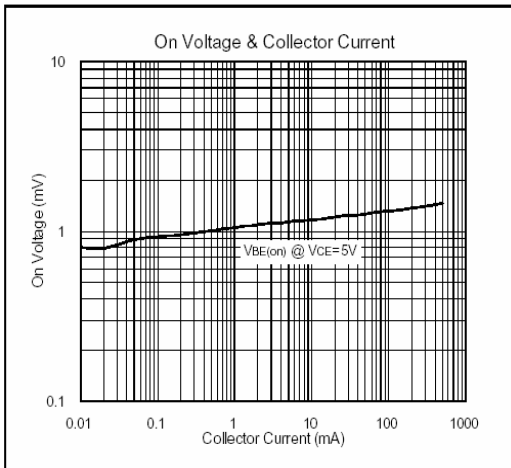
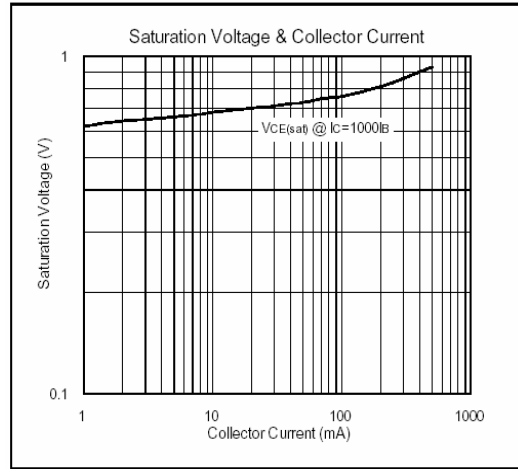
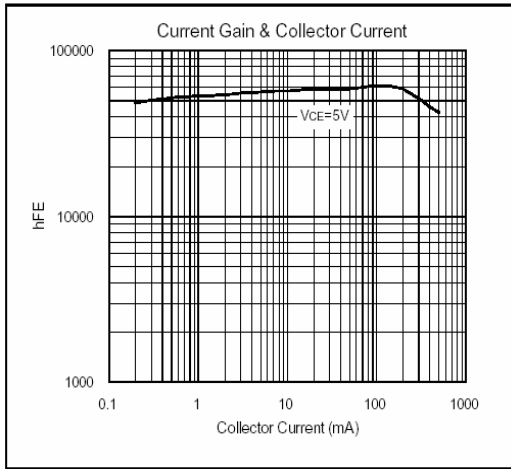
Parameter	Symbol	Ratings	Unit
Junction Temperature	Tj	+150	°C
Storage Temperature	Tstg	-55~+150	°C
Collector to Base Voltage	VcBO	30	V
Collector to Emitter Voltage	VCE0	30	V
Emitter to Base Voltage	VEBO	10	V
Collector Current	Ic	500	mA
Total Power Dissipation	PD	2	W

Electrical Characteristics (Ta = 25°C unless otherwise noted)

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVcBO	30	-	-	V	Ic=100uA, IE=0
BVCE0	30	-	-	V	Ic=100uA, Ib=0
BVEBO	10	-	-	V	IE=10uA, Ic=0
IcBO	-	-	100	nA	VcB=30V, IE=0
IEBO	-	-	100	nA	VEB=10V, Ic=0
*VCE(sat)	-	-	1.5	V	Ic=100mA, Ib=0.1mA
*VBE(on)	-	-	2.0	V	VCE=5V, Ic=100mA
*hFE1	10K	-	-		VCE=5V, Ic=10mA
*hFE2	20K	-	-		VCE=5V, Ic=100mA
fT	125	-	-	MHz	VCE=5V, Ic=10mA, f=100MHz
Cob	-	-	6	pF	VcB=10V, IE=0, f=1MHz

* Pulse Test: Pulse Width ≤ 380μs, Duty Cycle ≤ 2%

Characteristics Curve



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