

GJ127

PNP EPITAXIAL PLANAR TRANSISTOR

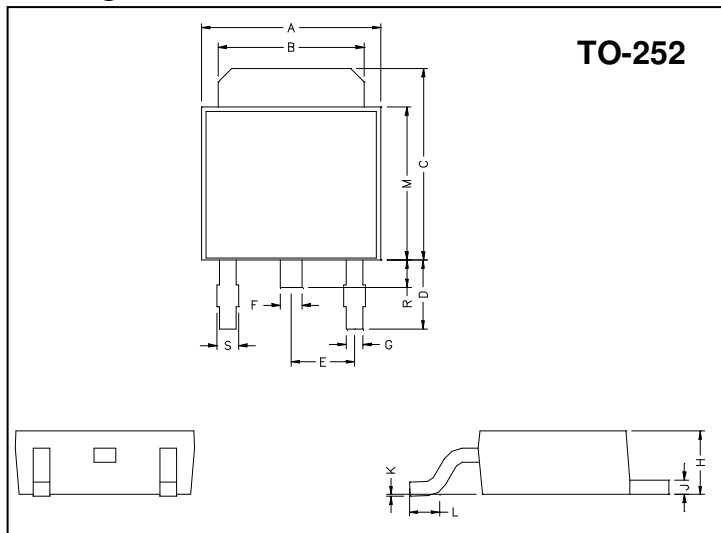
Description

The GJ127 is designed for use in general purposes and low speed switching applications.

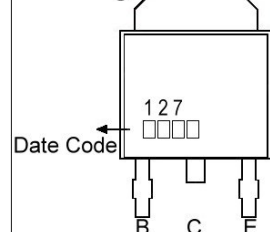
Features

- High DC current gain
- Built-in a damper diode at E-C

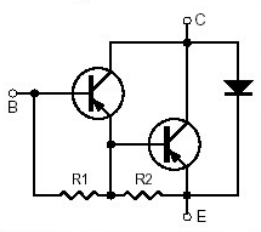
Package Dimensions



Marking :



Darlington Schematic



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	6.40	6.80	G	0.50	0.70
B	5.20	5.50	H	2.20	2.40
C	6.80	7.20	J	0.45	0.55
D	2.40	3.00	K	0	0.15
E	2.30 REF.		L	0.90	1.50
F	0.70	0.90	M	5.40	5.80
S	0.60	0.90	R	0.80	1.20

Absolute Maximum Ratings at Ta = 25°C

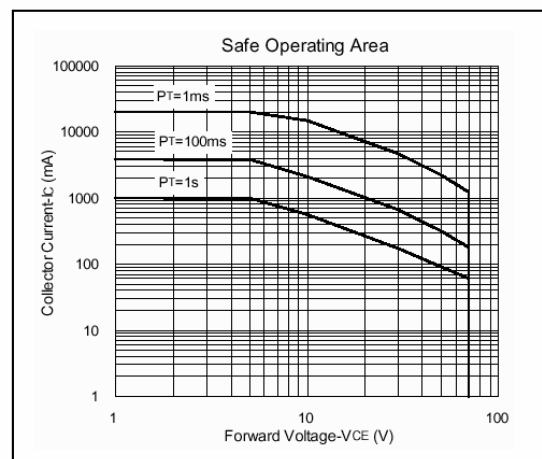
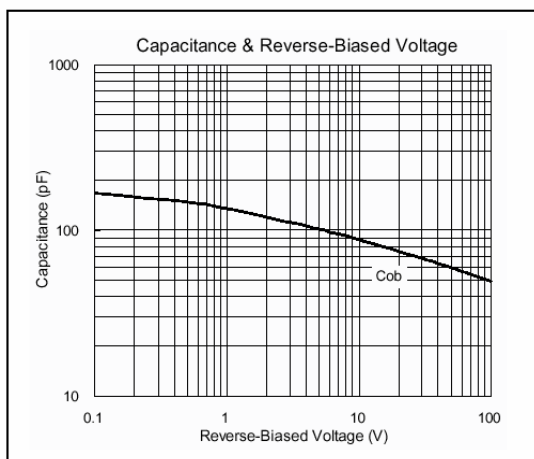
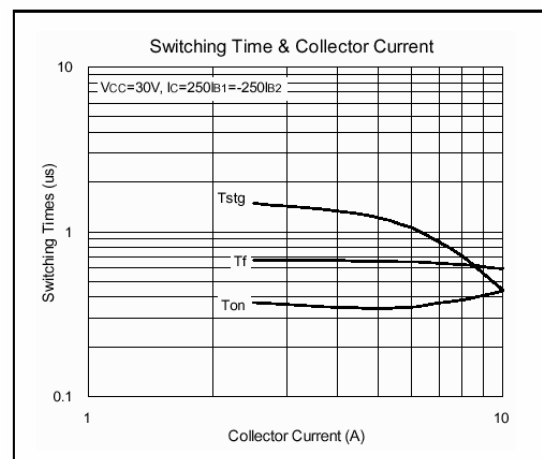
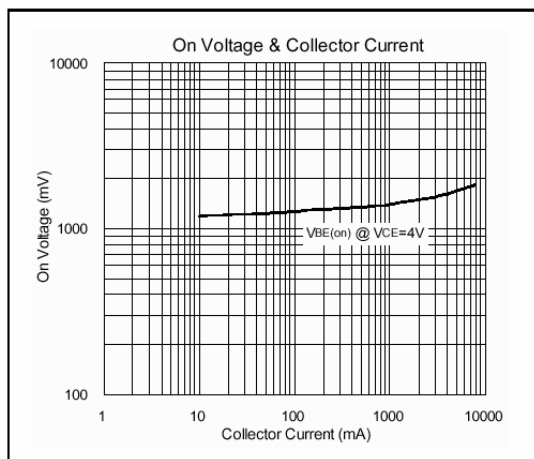
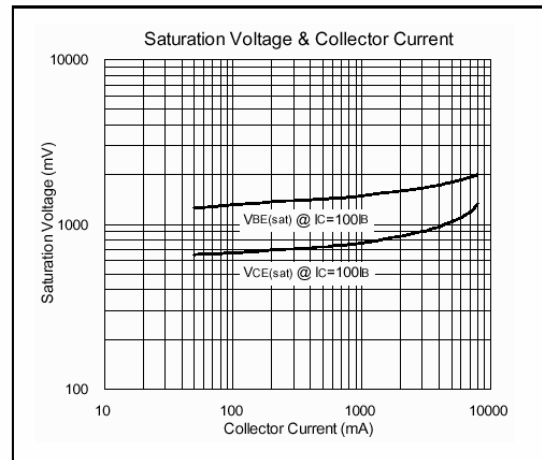
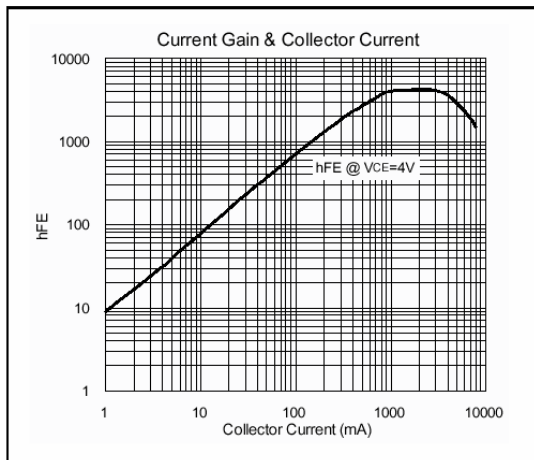
Parameter	Symbol	Ratings	Unit
Junction Temperature	Tj	+150	°C
Storage Temperature	Tstg	-55 ~ +150	°C
Collector to Base Voltage	BVCBO	-100	V
Collector to Emitter Voltage	BVCEO	-100	V
Emitter to Base Voltage	BVEBO	-5	V
Collector Current	IC	-5	A
Total Power Dissipation(Tc=25°C)	PD	20	W

Electrical Characteristics (Rating at 25°C ambient temperature unless otherwise specified)

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	-100	-	-	V	Ic=-1mA, IE=0
BVCEO	-100	-	-	V	Ic=-30mA, Ib=0
BVEBO	-5	-	-	V	IE=-1mA, Ic=0
ICBO	-	-	-10	μA	VCB=-100V, IE=0
ICEX	-	-	-10	μA	VCE=-100V, VBE(off)=-1.5V
IEBO	-	-	-2	mA	VEB=-5V, Ic=0
*VCE(sat)1	-	-	-2	V	Ic=-3A, Ib=-12mA
*VCE(sat)2	-	-	-4	V	Ic=-5A, Ib=-20mA
*VBE(sat)	-	-	-4	V	Ic=-5A, Ib=-50mA
*VBE(on)	-	-	-2.8	V	VCE=-3V, Ic=-3A
*hFE1	1	-	-	K	VCE=-3V, Ic=-500mA
*hFE2	1	-	-	K	VCE=-3V, Ic=-3A
Cob	-	-	300	pF	VCB=-10V, f=0.1MHz

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

Characteristics Curve



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Head Office And Factory:

- **Taiwan:** No. 17-1 Tatung Rd. Fu Kou Hsin-Chu Industrial Park, Hsin-Chu, Taiwan, R. O. C.
TEL : 886-3-597-7061 FAX : 886-3-597-9220, 597-0785
- **China:** (201203) No.255, Jang-Jiang Tsai-Lueng RD. , Pu-Dung-Hsin District, Shang-Hai City, China
TEL : 86-21-5895-7671 ~ 4 FAX : 86-21-38950165