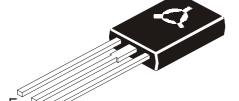


An ISO/TS16949 and ISO 9001 Certified Company



NPN EPITAXIAL SILICON POWER TRANSISTOR

BD410



TO-126 Plastic Package

ABSOLUTE MAXIMUM RATINGS

DESCRIPTION	SYMBOL	VALUE	UNIT
Collector -Base Voltage	V_{CBO}	500	V
Collector -Emitter Voltage	V_{CEO}	325	V
Emitter Base Voltage	V_{EBO}	5.0	V
Continuous Collector Current	Ι _C	1.0	А
Peak Collector Current	I_{CM}	1.5	
Total Power Dissipation @ Ta=25 °C	P _{tot}	1.25	W
@ Tc=25 °C		20	
Storage Temperature Range	T_{j}, T_{stg}	- 55 to +125	°C
Lead Temperature 1.6mm from Case for	T _L	260	°C
10 Seconds.			

ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Collector Cut Off Current	CES	V _{CE} =300V, _{IB} =0			100	μΑ
Collector -Base Voltage	V_{CBO}	I_{C} =500 μ A, I_{E} =0	500			V
Collector Emitter Voltage	V _{CEO} *	$I_C=10$ mA, $I_B=0$	325			V
Emitter Base Voltage	V_{EBO}	$I_{E} = 50 \mu A, I_{C} = 0$	5			V
DC Current Gain	h _{FE}	$I_C=5mA$, $V_{CE}=10V$	25			
		I_C =50mA, V_{CE} =10V	30		240	
		I_C =100mA, V_{CE} =10V	20			
Base Emitter Saturation Voltage	V _{BE (Sat)}	I _C =100mA, I _B =10mA			1.5	V
Collector Emitter Saturation Voltage	V _{CE (Sat)}	I_C =100mA, I_B =10mA			0.5	V

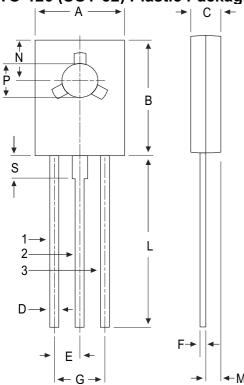
Dynamic Characteristics

DESCRIPTION	SYMBOL	SYMBOL TEST CONDITION		TYP	MAX	UNIT
Output Capacitance	C_{obo}	$I_E=0$, $V_{CB}=10V$, $f=1MHz$		5.5		pF
Input Capacitance	C_{ibo}	$I_E=0, V_{EB}=0.5V, f=1MHz$		90		pF

^{*}Pulsed Test tp=300µs,Duty Cycle≤2%

TO-126 Plastic Package

TO-126 (SOT-32) Plastic Package

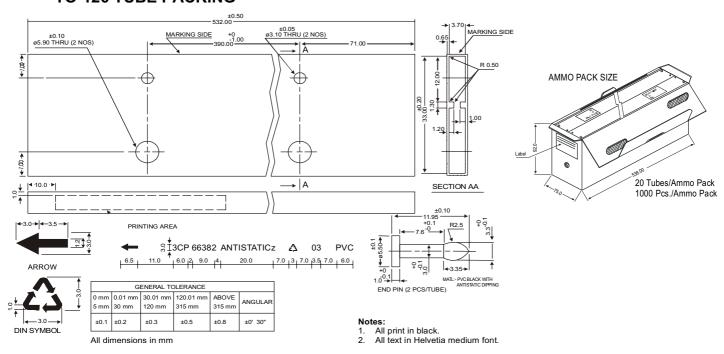


DIM	MIN	MAX			
Α	7.4	7.8			
В	10.5	10.8			
С	2.4	2.7			
D	0.7	0.9			
E	2.25 TYP.				
F	0.49	0.75			
G	4.5 TYP.				
L	15.7 TYP.				
М	1.27 TYP.				
N	3.75 TYP.				
Р	3.0	3.2			
S	2.5 TYP.				
All dimensions in mm.					

Pin Configuration

- 1. Emitter
- 2. Collector
- 3. Base

TO-126 TUBE PACKING



Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-126 Bulk	500 pcs/polybag	340 gm/500 pcs	3" x 7.5" x 7.5"	2K	17" x 15" x 13.5"	32K	31 kgs
TO-126 Tube	50 pcs/tube	73 gm/50 pcs	3" x 3.7" x 21.5"	1K	19" x 19" x 19"	10K	15 kgs

Notes BD410

TO-126 Plastic Package

Disclaimer

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