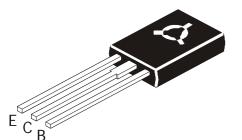




NPN SILICON POWER TRANSISTOR

CD83



TO126 Plastic Package

ABSOLUTE MAXIMUM RATINGS (T_a=25°C)

DESCRIPTION	SYMBOL	VALUE	UNITS
Collector Base Voltage	V _{CBO}	60	V
Collector Emitter Voltage	V _{CEO}	20	V
Emitter Base Voltage	V _{EBO}	6.0	V
Collector Current	Ι _C	5.0	A
Peak Collector Current	I _{CP}	8.0	А
Collector Power Dissipation	P _D	0.9	W
Operating and Storage Junction Temperature Range	T _{j,} T _{stg}	- 55 to +150	٥C

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

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNITS
Collector Cut Off Current	I _{CBO}	V _{CB} =50V, I _E =0			1.0	μΑ
Emitter Cut Off Current	I _{EBO}	$V_{EB} = 5V, I_{C} = 0$			1.0	μΑ
DC Current Gain	*h _{FE}	I_{C} =500mA, V_{CE} =2V	100		560	
		$I_C = 3A, V_{CE} = 2V$	75			
Collector Emitter Saturation Voltage	*V _{CE (sat)}	I _C =3A, I _B =60mA			0.5	V
Base Emitter Saturation Voltage	*V _{BE (sat)}	I _C =3A, I _B =60mA			1.5	V

DYNAMIC CHARACTERISTICS

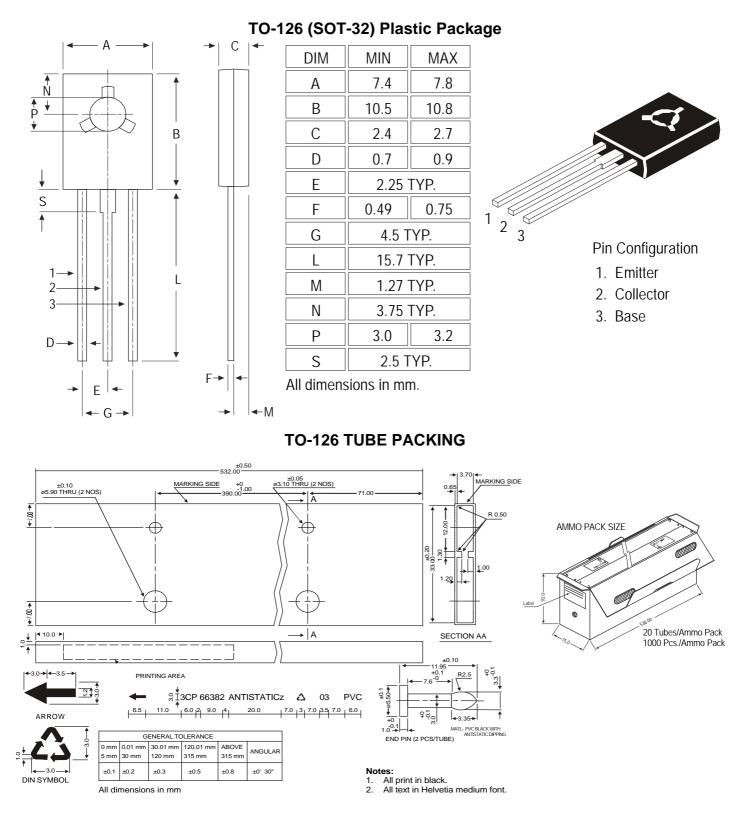
Transition Frequency	f _T	V _{CE} =10V, I _C =50mA	120	MHz
Output Capacitance	C _{ob}	V_{CB} =10V, I_{E} =0, f=1MHz	45	pF

Pulse Test: tp=300ms, Duty Cycle=2%

CD83Rev240205E

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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

CD83Rev240205E

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TO126 Plastic Package

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