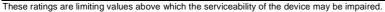


SOT-883 Digital Transistor (Built-in Resistors) PNP Silicon Surface Mount Transistor

Absolute Maximum Ratings (T_A = 25°C unless otherwise noted)

Symbol	Parameter	Value	Units	
V _{CBO}	Collector-base Voltage	-50	V	
V _{CEO}	Collector-emitter Voltage	-50	V	
V _{EBO}	Emitter-base Voltage	-5	V	
Ic	Collector Current	-100	mA	
P _D	Power Dissipation	150	mW	
TJ	Junction to Ambient	150	°C	
T _{STG}	Storage Temperature Range	-55 to +150	°C	



Green Product





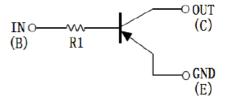
SOT-883 (DFN1006-3)

- 1. IN 2. GND
- 2. GND 3. OUT

FEATURES:

- § Built-in resistors enable the configuration of a inverter circuit without connecting external input resistors.
- § The bias resistors consist of thin-film resistors with complete isolation to allow positive biasing of the input. They also have the advantage of almost completely eliminating parasitic effects.
- § Only the on/off conditions need to be set for operation, making device design easy.
- § DFN1006-3
- § RoHS Compliant
- § Green EMC
- Matte Tin(Sn) Lead Finish
- Weight: approx. 0.001g

ELECTRICAL SYMBOL:



DEVICE MARKING CODE:

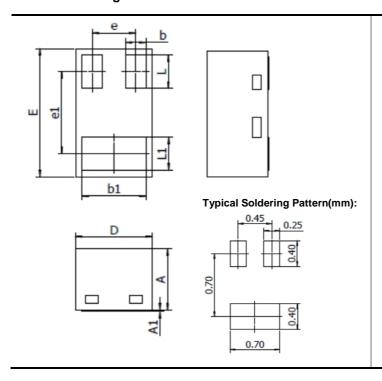
Device Type	Device Marking		
DTA114TN3	94		
DTA143TN3	93		



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

Davamatar	Cymphal	Cumbal Tast Candition	Limits			l losis
Parameter	Symbol Te	Test Condition	Min	Тур	Max	- Unit
Collector-base breakdown Voltage	BV _{CBO}	I _C =-50uA, I _E =0	-50			V
Collector-emitter breakdown Voltage	BV _{CEO}	I _C =-1mA, I _B =0	-50			V
Emitter-base breakdown Voltage	BV _{EBO}	I _E = -50uA, I _C =0	-5			V
Collector cut-off Current	Ісво	V _{CB} = -50V, I _E =0			-0.5	uA
Emitter cut-off Current	I _{EBO}	$V_{EB} = -4V, I_{C} = 0$			-0.5	uA
Collector-emitter saturation voltage	V _{CE(sat)}					
	DTA114TN3	$I_C = -10mA, I_B = -1mA$			-0.3	V
	DTA143TN3	$I_C = -5mA, I_B = -0.25mA$			-0.3	
DC current gain	h _{FE}	$V_{CE} = -5V$, $I_{C} = -1mA$	100	250	600	
Input Resistance	R ₁					
	DTA114TN3		7	10	13	ΚΩ
	DTA143TN3		3.29	4.7	6.11	
Transition Frequency	f _T	V _{CE} = -10V, I _E = -5mA		250		MHz
Transition Frequency	ΙΤ	f=100MHz		230		IVIITIZ

SOT-883 Package Outline



DIM	MILLIMETERS		INCHES		
DIIVI	MIN	MAX	MIN	MAX	
Α	0.46	0.50	0.018	0.020	
A1		0.03		0.001	
D	0.55	0.65	0.022	0.026	
E	0.95	1.05	0.037	0.041	
b	0.12	0.22	0.005	0.008	
b1	0.45	0.55	0.018	0.022	
L	0.22	0.32	0.008	0.013	
L1	0.22	0.32	0.008	0.013	
е	Тур. 0.34		Тур. 0.013		
e1	Тур. 0.65		Тур. 0.026		

DB Number: DB-335 Apr 2021, Revision A



NOTICE

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Number: DB-100 April 14, 2008 / A