



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939

DTC144TSA

Features

- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Built-in bias resistors enable the configuration of an inverter circuit without connecting external input resistors
- The bias resistors consist of thin-film resistors with complete isolation to allow negative 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

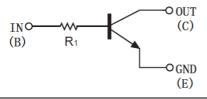
Absolute maximum ratings @ 25°

Symbol	Parameter	Min	Тур	Max	Unit
V_{CEO}	Collector-Emitter Voltage		50		V
V_{CBO}	Collector-Base Voltage		50		V
V_{EBO}	Emitter-Base Voltage		50		V
lο	Output current		100		mA
P_d	Power dissipation		300		mW
Tj	Junction temperature		150		$^{\circ}\mathbb{C}$
T _{stg}	Storage temperature	-55		150	$^{\circ}\mathbb{C}$

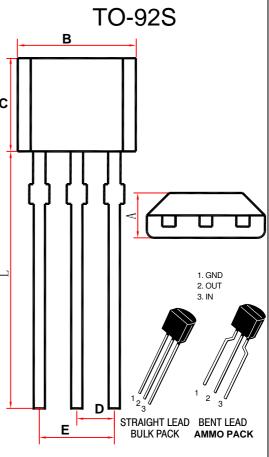
Electrical Characteristics @ 25% Unless Otherwise Specified

Symbol	Parameter	Min	Тур	Max	Unit
V_{CEO}	Collector-Emitter Voltage (I _C =1mA,I _B =0)	50			V
V _{CBO}	Collector-Base Voltage $(I_C=0.05mA, I_E=0)$ 50			V	
V_{EBO}	Emitter-Base Voltage (I _E =0.05mA, I _C =0)	5.0			V
I _{CBO}	Collector cut-off Current $(V_{CB}=50V, I_{E}=0)$			0.5	μА
I _{EBO}	Emitter cut-off Current (V _{EB} =4V, I _C =0)			0.5	μ A
h _{FE}	DC current gain (V _{CE} =5V, I _C =1mA)	100		600	
$V_{\text{CE(sat)}}$	Collector-Emitter Saturation Voltage (I _C =5mA, I _B =0.5mA)			0.3	V
R₁	Input resistor	32.9	47	61.1	ΚΩ
f⊤	Transition Frequency (V _{CE} =10Vdc, I _E =-5.0mAdc,f=100MHz)		250		MHz

Equivalent Circuit



Digital Transistors



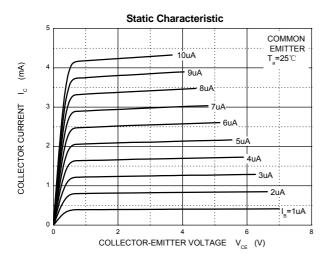
DIMENSIONS					
	INC	INCHES MM		М	
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.056	.064	1.42	1.62	
В	.154	.161	3.90	4.10	
С	.120	.128	3.05	3.25	
D	.050		1.27		Straight Lead
_ D	.086	.110	2.20	2.80	Bent Lead
_	.096	.104	2.44	2.64	Straight Lead
E	.173	.220	4.40	5.60	Bent Lead
L	.594	.610	15.10	15.50	

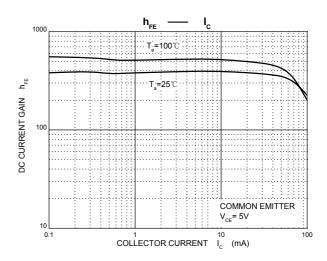
^{*} For ammo packing detailed specification, click here to visit our website of product packaging for details.

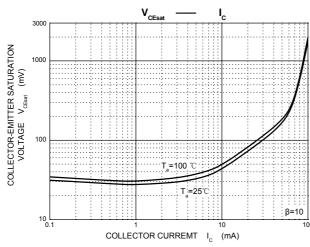
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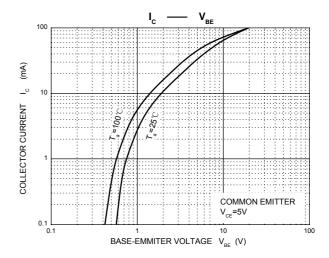


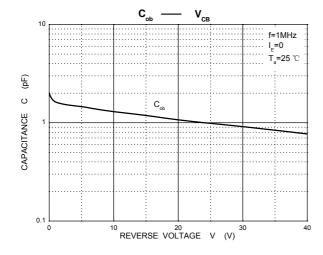
Typical Characteristics

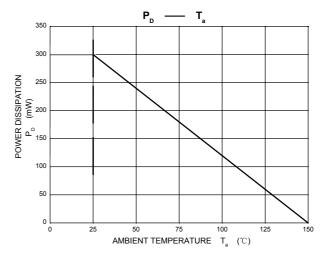














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Ordering Information:

Device	Packing
Part Number-AP	Ammo Packing: 30Kpcs/Carton
Part Number-BP	Bulk: 100 Kpcs/Carton

Note: Adding "-HF" suffix for halogen free, eg. Part Number-AP-HF

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