

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

Micro Commercial Components (MCC)
DTA143EE-TP

For any questions, you can email us directly: sales@integrated-circuit.com

Datasheet of DTA143EE-TP - TRANS PREBIAS PNP 150MW SOT523 Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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

DTA143EE

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure 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

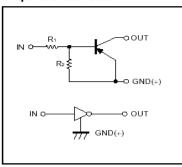
 • Halogen free available upon request by adding suffix "-HF" **Absolute maximum ratings** @ 25°€

Symbol	Parameter	Min	Тур	Max	Unit	
V _{cc}	Supply voltage		-50		V	
V_{IN}	Input voltage	-30		10	V	
I _O I _{C(MAX)}	Output current		-100 -100		mA	
P_d	Power dissipation		150		mW	
Tj	Junction temperature		150		$^{\circ}$	
T _{stg}	Storage temperature	-55		150	$^{\circ}$	

Electrical Characteristics @ 25°

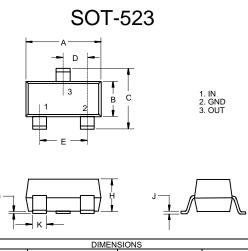
Symbol	Parameter		Тур	Max	Unit
$V_{I(off)}$	Input voltage (V _{CC} =-5V, I _O =-100 μ A)			-0.5	V
$V_{I(on)}$	$(V_0=-0.3V, I_0=-20mA)$	-3.0			V
$V_{O(on)}$	Output voltage (I _O /I _I =-10mA/-0.5mA			-0.3	V
I_{l}	Input current (V _I =-5V)			-1.8	mA
I _{O(off)}	Output current (V _{CC} =-50V, V _I =0)			-0.5	μА
Gı	DC current gain (V _O =-5V, I _O =-10mA)	30			
R ₁	Input resistance	3.29	4.7	6.11	ΚΩ
R_2/R_1	Resistance ratio	0.8	1.0	1.2	
f⊤	Transition frequency (V _{CE} =-10V, I _E =5mA, f=100MHz)		250		MHz

Equivalent circuit



*Marking: 13

PNP Digital Transistors



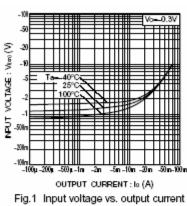
DIMENSIONS						
	INCHES		М			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.059	.067	1.50	1.70		
В	.030	.033	0.75	0.85		
С	.057	.069	1.45	1.75		
D	.020 Nominal		0.50Nominal			
E	.035	.043	0.90	1.10		
G	.000	.004	.000	.100		
Н	.028	.031	.70	0.80		
J	.004	.008	.100	.200		
K	.010	.014	.25	.35		



Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

DTA143EE





(ON characteristics)

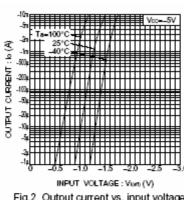


Fig.2 Output current vs. input voltage (OFF characteristics)

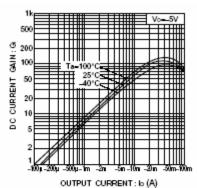


Fig.3 DC current gain vs. output current

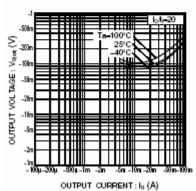


Fig.4 Output voltage vs. output current

Distributor of Micro Commercial Components (MCC): Excellent Integrated System Limite

Datasheet of DTA143EE-TP - TRANS PREBIAS PNP 150MW SOT523

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



Micro Commercial Components

Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel 3Kpcs/Reel

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

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. **Micro Commercial Components Corp.** does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp.** and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.