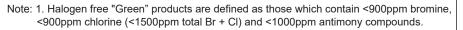


## Features

- Two DTC143T Chips In a Package
- Mounting Cost and Area Can Be Cut In Half.
- Transistor Elements Independent, Eliminating Interference.
- Halogen Free. "Green" Device (Note 1)
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant.See Ordering Information)

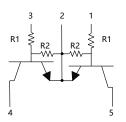
## Maximum Ratings @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Max	Unit
Collector-Emitter Voltage	$V_{CEO}$	50			V
Collector-Base Voltage	V <sub>CBO</sub>	50			V
Emitter-Base Voltage	V <sub>EBO</sub>	5			mA
Collector Current	I <sub>C</sub>		100		mA
Power Dissipation	P <sub>D</sub>		150		mW
Junction Temperature	TJ			150	°C
Storage Temperature Range	T <sub>STG</sub>	-55		150	°C

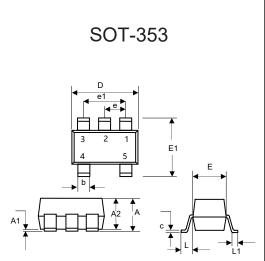


### Device Marking: G3

#### Internal Structure



# Dual NPN Digital Transistor



DIM	INC	INCHES		М	NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.035	0.043	0.90	1.10		
A1		0.004		0.10		
A2	0.035	0.039	0.90	1.00		
b	0.006	0.014	0.15	0.35		
С	0.003	0.006	0.08	0.15		
D	0.790	0.087	2.00	2.20		
Е	0.045	0.053	1.15	1.35		
E1	0.085	0.096	2.15	2.45		
е	0.0	0.026		650	TYP.	
e1	0.047	0.055	1.20	1.40		
L	0.0	0.021		525	TYP.	
L1	0.010	0.018	0.26	0.46		



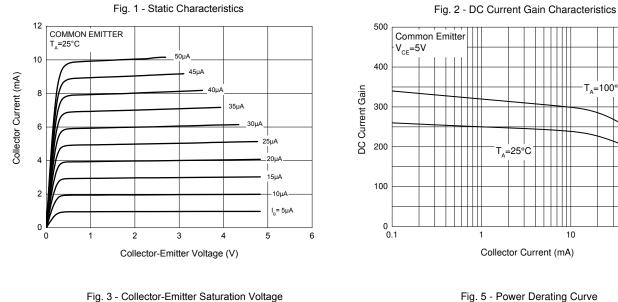
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V <sub>(BR)CBO</sub>	50			V	$I_{C}=50\mu A, I_{E}=0$
Collector-Emitter Breakdown Voltage	V <sub>(BR)CEO</sub>	50			V	I <sub>C</sub> =1mA, I <sub>B</sub> =0
Emitter-Base Breakdown Voltage	V <sub>(BR)EBO</sub>	5			V	I <sub>E</sub> =50μA, I <sub>C</sub> =0
Collector Cut-off Current	I <sub>CBO</sub>			0.5	μA	$V_{CB}=50V,I_{E}=0$
Emitter Cut-off Current	I <sub>EBO</sub>			0.5	μA	$V_{EB}=4V,I_{C}=0$
DC Current Transfer Ratio	h <sub>FE</sub>	100		600		I <sub>C</sub> =1mA, V <sub>CE</sub> =5V
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>			0.3	V	I <sub>C</sub> =5mA, I <sub>B</sub> =0.25mA
Input Resistance	R <sub>1</sub>	3.29	4.7	6.11	KΩ	
Transition Frequency	f <sub>T</sub>		250		MHz	V <sub>CE</sub> =10.0V, I <sub>E</sub> =-5mA, f=100MHz

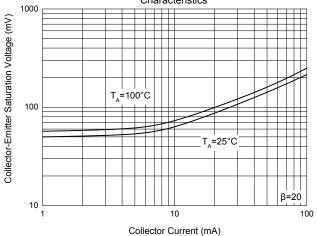




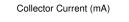
## **Curve Characteristics**

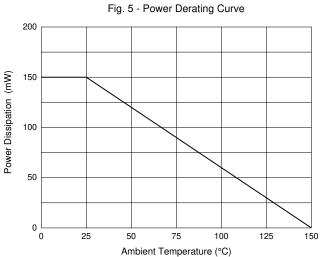


Characteristics



T<sub>A</sub>=100°C T<sub>A</sub>=25°C 1 10 100







## **Ordering Information**

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

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