

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)

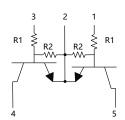
Maximum Ratings @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Max	Unit
Collector-Emitter Voltage	V_{CEO}	50			V
Collector-Base Voltage	V _{CBO}	50			V
Emitter-Base Voltage	V _{EBO}	5			mA
Collector Current	I _C		100		mA
Power Dissipation	P_{D}		150		mW
Junction Temperature	T _J			150	°C
Storage Temperature Range	T _{STG}	-55		150	°C

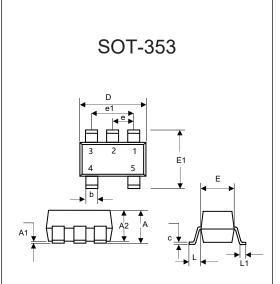
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Device Marking: G3

Internal Structure



Dual NPN Digital Transistor



DIMENSIONS						
DIM	INCHES		M	М	NOTE	
DIIVI	MIN	MAX	MIN MAX		INOTE	
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	0.026		0.650		TYP.	
e1	0.047	0.055	1.20	1.40		
L	0.021		0.525		TYP.	
L1	0.010	0.018	0.26	0.46		

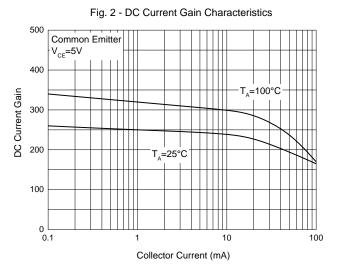


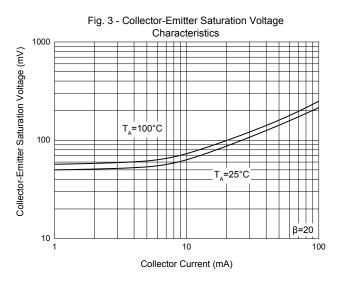
Electrical Characteristics @ 25°C Unless Otherwise Specified

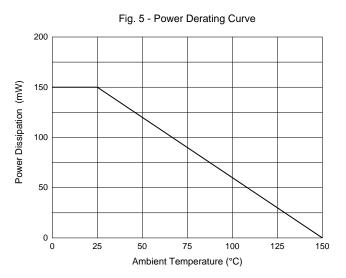
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	50			V	$I_{C}=50\mu A, I_{E}=0$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	50			V	$I_C=1$ mA, $I_B=0$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	5			V	$I_{E}=50\mu A, I_{C}=0$
Collector Cut-off Current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



Curve Characteristics









Ordering Information

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

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