

Features

- Halogen Free. "Green" Device (Note 1)
- AEC-Q101 Qualified
- 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)

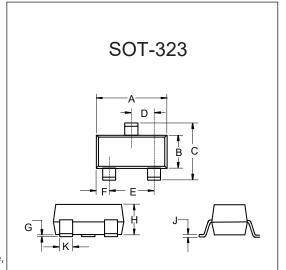
NPN Digital Transistor

Maximum Ratings @ 25°C Unless Otherwise Specified

Thermal Resistance: 625°C/W Junction to Ambient

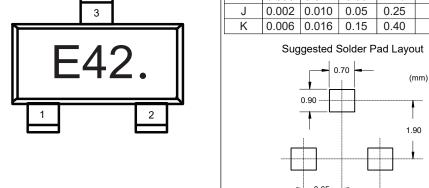
Parameter	Symbol	Value	Unit
Supply Voltage	V _{CC}	50	V
Input Voltage	V _{IN}	-5~+12	V
Output Current	Io	100	mA
Power Dissipation	P _D	200	mW
Junction Temperature	TJ	150	°C
Storage Temperature	T _{stg}	-55~+150	°C

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

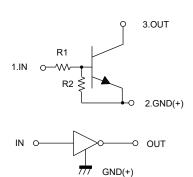


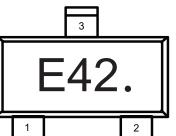
DIMENSIONS						
DIM	INCHES		M	M	NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.071	0.087	1.80	2.20		
В	0.045	0.053	1.15	1.35		
С	0.083	0.096	2.10	2.45		
D	0.026		0.65		TYP.	
Е	0.047	0.055	1.20	1.40		
F	0.012	0.016	0.30	0.40		
G	0.000	0.004	0.00	0.10		
Н	0.035	0.044	0.90	1.10		
J	0.002	0.010	0.05	0.25		
K	0.006	0.016	0.15	0.40		

0.65



Internal Structure





Marking Code

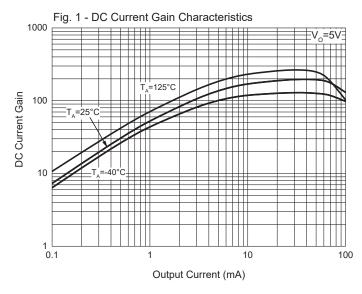


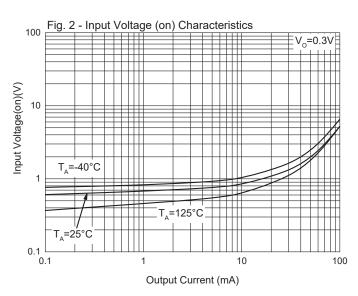
Electrical Characteristics @ 25°C Unless Otherwise Specified

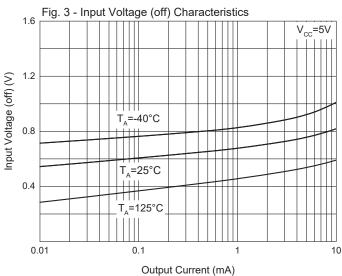
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Input Voltage	V _{I(off)}	0.5			V	V _{CC} =5V, I _O =100μA
	V _{I(on)}			1.1	V	V _O =0.3V, I _O =5mA
Output Voltage	V _{O(on)}			0.3	V	I _O =5mA,I _I =0.25mA
Input Current	I _I			3.6	mA	V _I =5V
Output Current	I _{O(off)}			0.5	μA	V _{CC} =50V, V _I =0
DC Current Gain	Gı	80				V _O =5V, I _O =10mA
Input Resistance	R ₁	1.54	2.2	2.86	ΚΩ	
Resistance Ratio	R ₂ /R ₁	17	21	26		
Transition Frequency	f _T	200			MHz	V _O =10V, I _O =5mA, f=100MHz

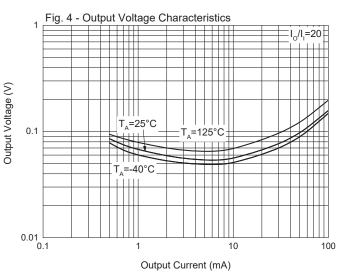


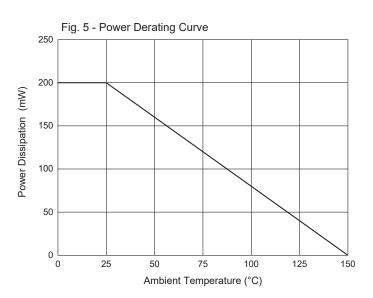
Curve Characteristics













Ordering Information

Device	Packing		
DTC123JUAHE3-TP	Tape&Reel:3Kpcs/Reel		

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