

Features

- Only the On/Off Conditions Need to Be Set For Operation, Making Device Design Easy
- AEC-Q101 Qualified
- 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)

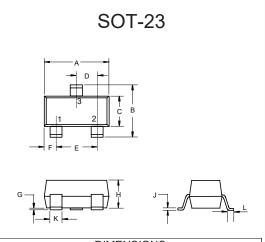
Maximum Ratings @ 25°C Unless Otherwise Specified

•	Thermal Resi	stance: 6	25°C/W	Junction	to Ambient
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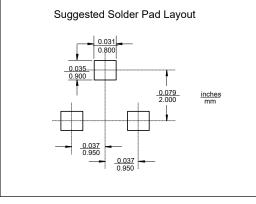
Parameter	Symbol	Value	Unit
Supply Voltage	V _{CC}	50	V
Input Voltage	V _{IN}	-10~+40	V
Output Current	Ι _ο	100	mA
Power Dissipation	P _D	200	mW
Junction Temperature	TJ	150	°C
Storage Temperature	T _{stg}	-55~+150	°C

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

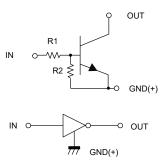




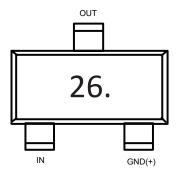
	DIMENSIONS					
DIM	INCHES		M	Μ	NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.110	0.120	2.80	3.04		
В	0.083	0.104	2.10	2.64		
С	0.047	0.055	1.20	1.40		
D	0.034	0.041	0.85	1.05		
E	0.067	0.083	1.70	2.10		
F	0.018	0.024	0.45	0.60		
G	0.0004	0.006	0.01	0.15		
Н	0.035	0.043	0.90	1.10		
J	0.003	0.007	0.08	0.18		
K	0.012	0.020	0.30	0.51		
L	0.007	0.020	0.20	0.50		



Internal Structure



Device Marking



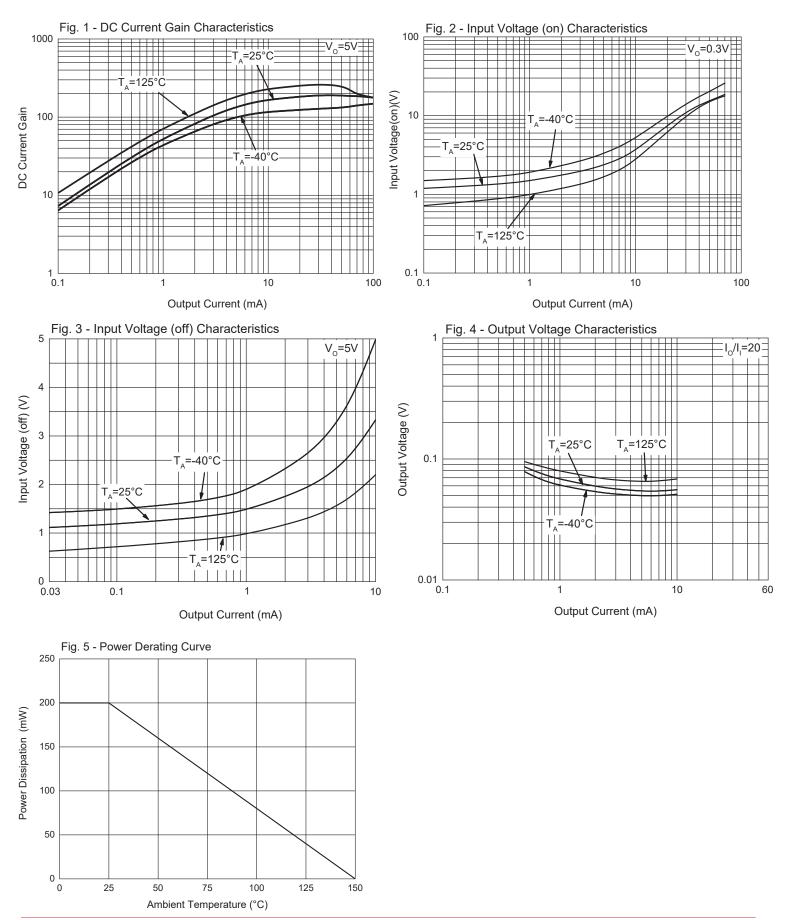


Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Input Valtage	V _{I(off)}	0.5			V	V _{CC} =5V, I _O =100µA
Input Voltage	V _{I(on)}			3.0	V	V ₀ =0.3V, I ₀ =2mA
Output Voltage	V _{O(on)}			0.3	V	I _O =10mA,I _I =0.5mA
Input Current	I,			0.18	mA	V _I =5V
Output Current	I _{O(off)}			0.1	μA	V _{CC} =50V, V _I =0
DC Current Gain	GI	68				V _O =5V, I _O =5mA
Input Resistance	R ₁	32.9	47	61.1	KΩ	
Resistance Ratio	R ₂ /R ₁	0.8	1.0	1.2		
Transition Frequency	f _T		250		MHz	V _{CE} =10V, I _E =5mA, f=100MHz



Curve Characteristics





Ordering Information

Device	Packing		
DTC144ECAHE3-TP	Tape&Reel:3Kpcs/Reel		

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