

Features

- 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)

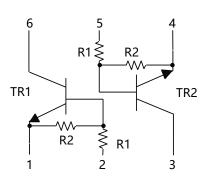
Maximum Ratings @ 25°C Unless Otherwise Specified

Thermal Resistance: 833°C/W Junction to Ambinet

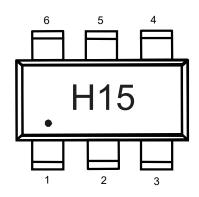
Parameter	Symbol	Value	Unit
Supply Voltage	V _{CC}	50	V
Input Voltage	V _{IN}	-10~+30	V
Output Current	Io	100	mA
Power Dissipation	P _D	150	mW
Junction Temperature	TJ	150	°C
Storage Temperature	T _{stg}	-55~+150	°C

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

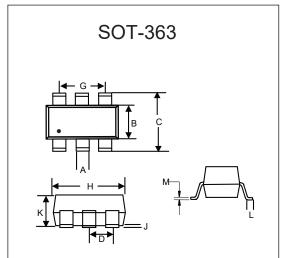
Internal Structure:



Device Marking:

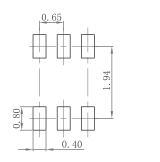


Dual NPN Digital Transistor



DIMENSIONS							
DIM INCHES		M	M	NOTE			
MIN	MAX	MIN	MAX	NOTE			
0.006	0.014	0.15	0.35				
0.045	0.053	1.15	1.35				
0.079	0.096	2.00	2.45				
0.026		0.0	65	TYP.			
0.047	0.055	1.20	1.40				
0.071	0.087	1.80	2.20				
	0.004		0.10				
0.031	0.043	0.80	1.10				
0.010	0.018	0.26	0.46				
0.003	0.006	80.0	0.15				
	MIN 0.006 0.045 0.079 0.047 0.071 0.031 0.010	INCHES MIN MAX 0.006 0.014 0.045 0.053 0.079 0.096 0.026 0.047 0.055 0.071 0.087 0.004 0.031 0.043 0.010 0.018	INCHES M MIN 0.006 0.014 0.15 0.045 0.053 1.15 0.079 0.096 2.00 0.026 0.047 0.055 1.20 0.071 0.087 1.80 0.031 0.043 0.80 0.010 0.018 0.26	MIN MAX MIN MAX 0.006 0.014 0.15 0.35 0.045 0.053 1.15 1.35 0.079 0.096 2.00 2.45 0.026 0.65 0.047 0.055 1.20 1.40 0.071 0.087 1.80 2.20 0.004 0.10 0.031 0.043 0.80 1.10 0.010 0.018 0.26 0.46			

Suggested Solder Pad Layout



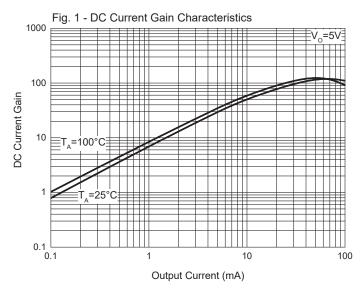


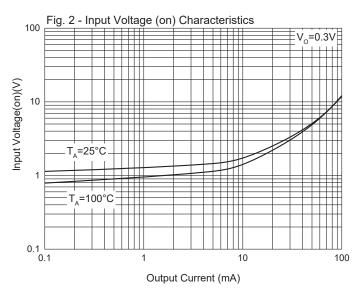
Electrical Characteristics @ 25°C Unless Otherwise Specified

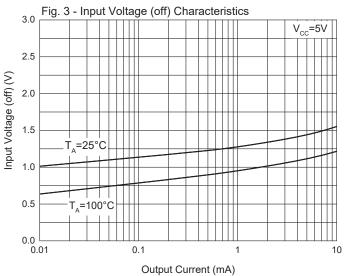
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Input Voltage	$V_{I(off)}$	0.5			V	V _{CC} =5V, I _O =100μA
	V _{I(on)}			3.0	V	V _O =0.3V, I _O =20mA
Output Voltage	V _{O(on)}			0.3	V	I _O =10mA,I _I =0.5mA
Input Current	I _I			1.8	mA	V _I =5V
Output Current	I _{O(off)}			0.5	μA	V _{CC} =50V, I _E =0
DC Current Gain	G _I	20				V _O =5V, I _O =10mA
Input Resistance	R ₁	3.29	4.7	6.11	ΚΩ	
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

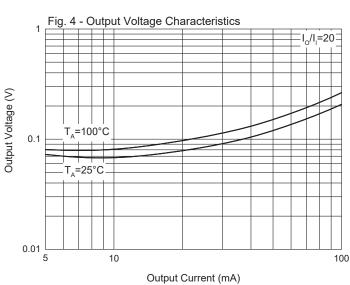


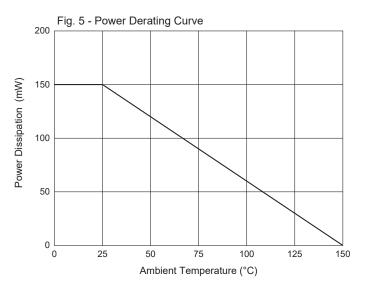
Curve Characteristics













Ordering Information

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

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