

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)

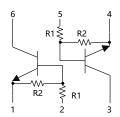
Maximum Ratings @ 25°C Unless Otherwise Specified

• Thermal Resistance: 833°C/W Junction to Ambient

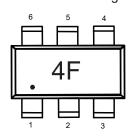
Parameter	Symbol	Value	Unit
Supply Voltage	V _{cc}	50	V
Input Voltage	V _{IN}	-5~+10	V
Output Current	Io	100	mA
Power Dissipation	P _D	150	mW
Junction Temperature	TJ	-55~+150	°C
Storage Temperature	T _{stg}	-55~+150	°C

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

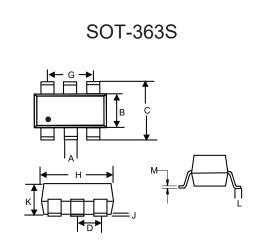
Internal Structure



Device Marking

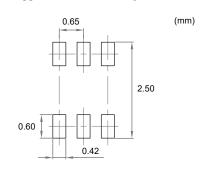


Dual NPN Digital Transistor



DIMENSIONS						
DIM INCHES		M	M	NOTE		
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.006	0.014	0.15	0.35		
В	0.045	0.053	1.15	1.35		
С	0.079	0.087	2.00	2.20		
D	0.026		0.65		TYP.	
G	0.047	0.055	1.20	1.40		
Н	0.071	0.087	1.80	2.20		
J		0.004		0.10		
K	0.031	0.043	0.80	1.10		
L	0.008	0.016	0.20	0.40		
М	0.003	0.006	0.08	0.15		

Suggested Solder Pad Layout



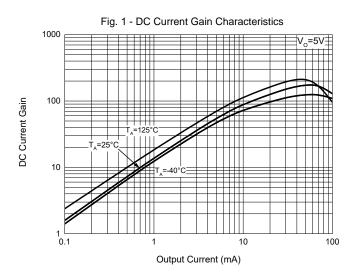


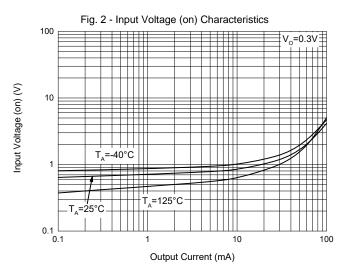
Electrical Characteristics @ 25°C Unless Otherwise Specified

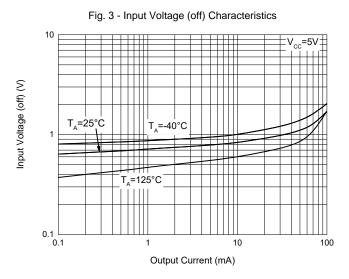
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Input Voltage	$V_{I(off)}$	0.3			V	V _{CC} =5V, I _O =100μA
	V _{I(on)}			3.0	V	V _O =0.3V, I _O =20mA
Output Voltage	V _{O(on)}			0.3	V	I _O =10mA,I _I =0.5mA
Input Current	I _I			7.2	mA	V _I =5V
Output Current	I _{O(off)}			0.5	μA	V _{CC} =50V, V _I =0
DC Current Gain	Gı	33				V _O =5V, I _O =5mA
Input Resistance	R ₁	0.7	1.0	1.3	ΚΩ	
Resistance Ratio	R ₂ /R ₁	8	10	12		
Transition Frequency	f _T		250		MHz	V _{CE} =10V, I _E =5mA, f=100MHz

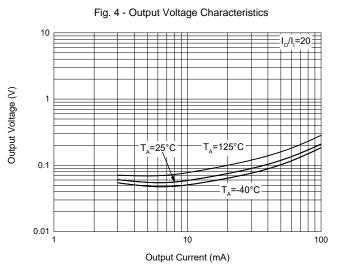


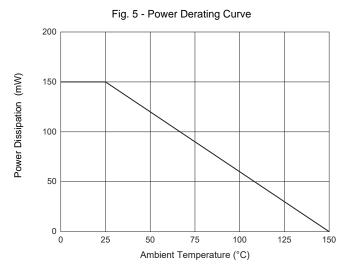
Curve Characteristics













Ordering Information

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

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