

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)

PNP Digital Transistor

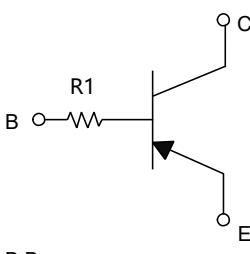
Maximum Ratings @ 25°C Unless Otherwise Specified

- Thermal Resistance: 1250°C/W Junction to Ambient

Parameter	Symbol	Value	Unit
Collector-Emitter Voltage	V_{CEO}	-50	V
Collector-Base Voltage	V_{CBO}	-50	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current-Continuous	I_C	-100	mA
Power Dissipation	P_D	100	mW
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

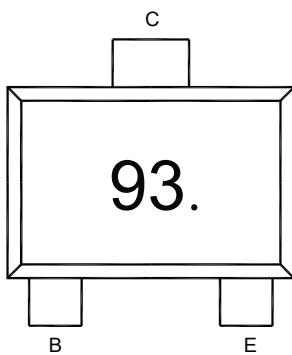
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure

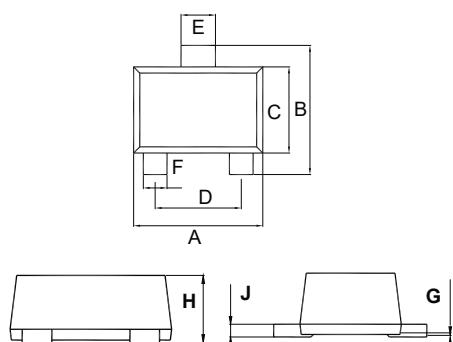


B:Base
C:Collector
E:Emitter

Device Marking



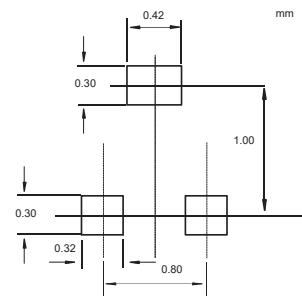
SOT-723



DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.043	0.051	1.10	1.30	
B	0.043	0.051	1.10	1.30	
C	0.028	0.035	0.70	0.90	
D	0.031		0.80		TYP.
E	0.009	0.017	0.22	0.42	
F	0.005	0.013	0.12	0.32	
G	0.000	0.002	0.00	0.05	
H	0.017	0.021	0.43	0.54	
J	0.003	0.006	0.08	0.15	

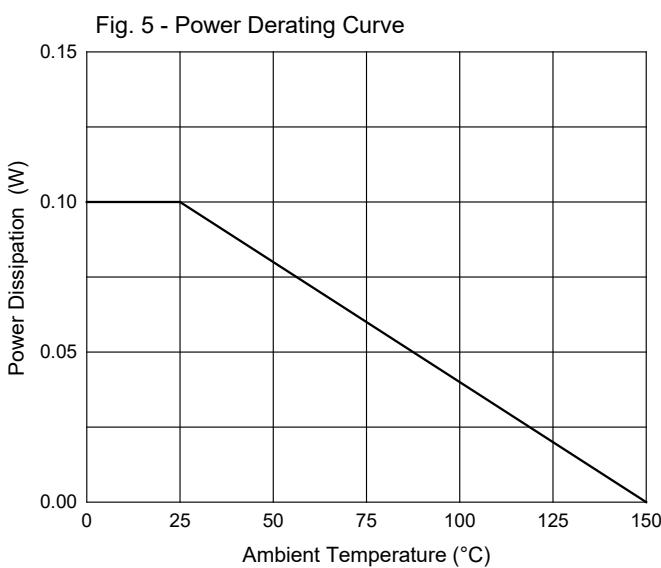
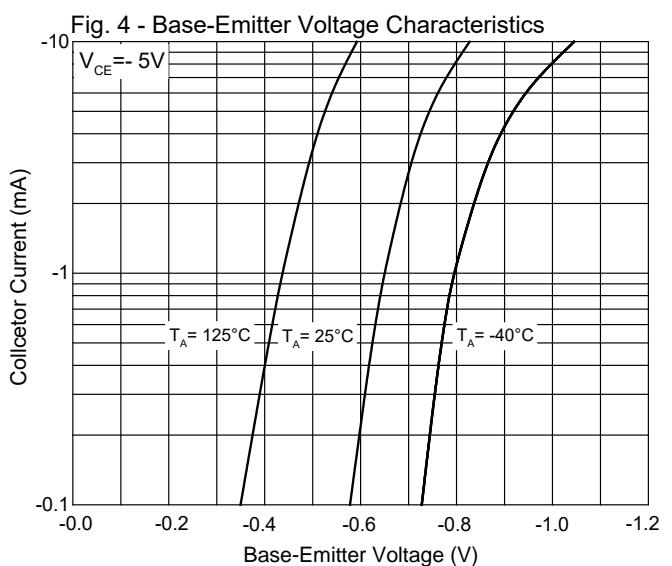
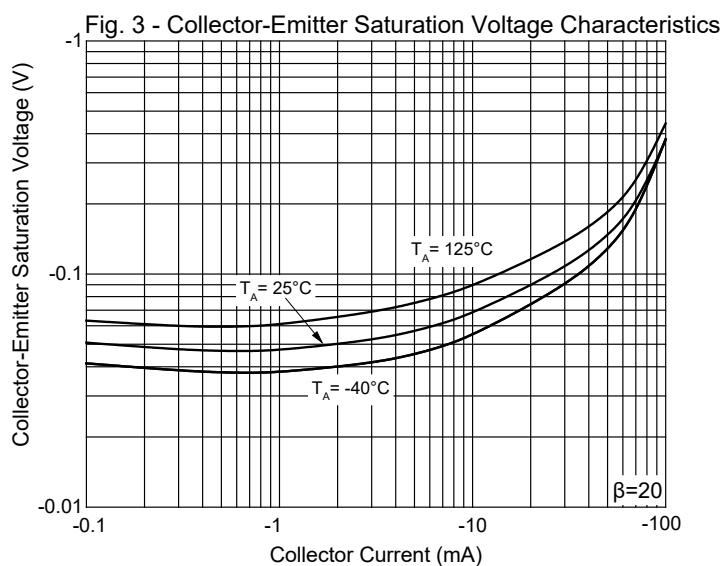
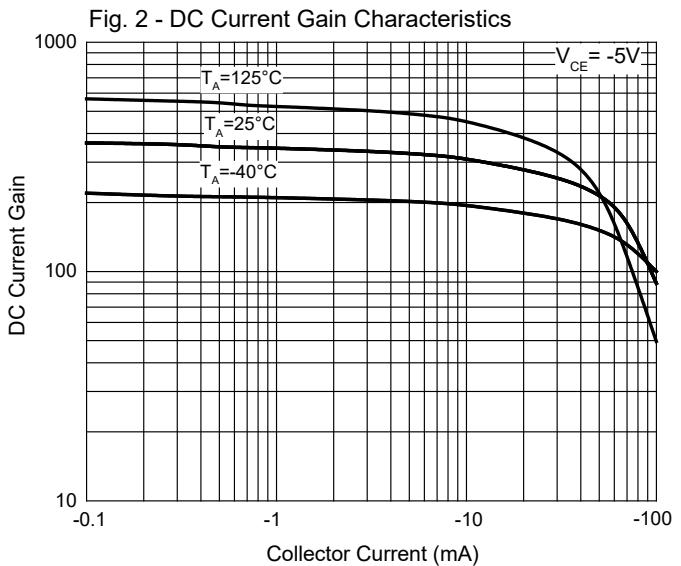
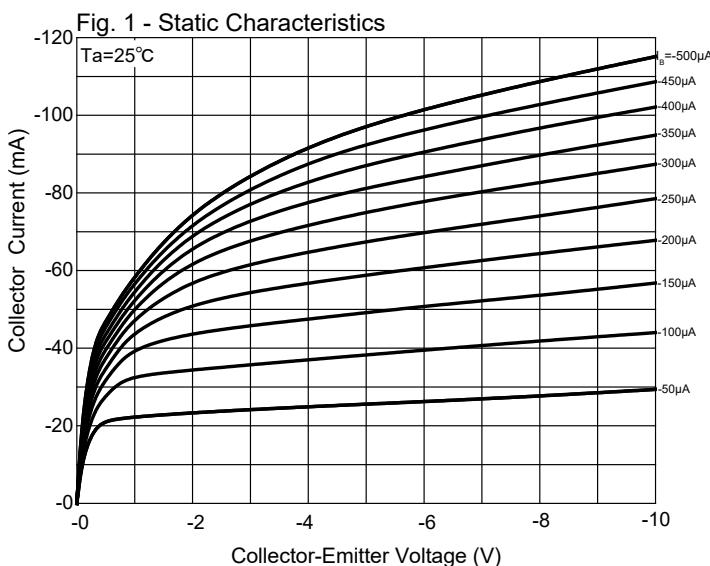
Suggested Solder Pad Layout



Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Typ	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	$I_C=-1mA, I_B=0$
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 Gain	h_{FE}	100	---	600		$V_{CE}=-5V, I_C=-1mA$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	---	---	-0.3	V	$I_C=-5mA, I_B=-0.25mA$
Input Resistance	R_1	3.29	4.7	6.11	$K\Omega$	
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:8Kpcs/Reel

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