

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

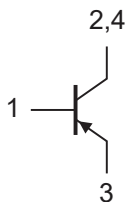
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	-500	V
Collector-Emitter Voltage	V_{CEO}	-500	V
Emitter-Base Voltage	V_{EBO}	-7	V
Continuous Collector Current	I_C	-150	mA
Power Dissipation @ $T_A=25\text{ }^\circ\text{C}$	P_D	0.5	W
Power Dissipation @ $T_C=25\text{ }^\circ\text{C}$	P_D	2.5	W

Thermal characteristics

Parameter	Symbol	Rating	Unit
Junction Temperature Range	T_J	-55~+150	°C
Storage Temperature Range	T_{STG}	-55~+150	°C
Thermal Resistance from Junction to Ambient	$R_{th(J-A)}$	250	°C/W
Thermal Resistance from Junction to Case	$R_{th(J-C)}$	50	°C/W

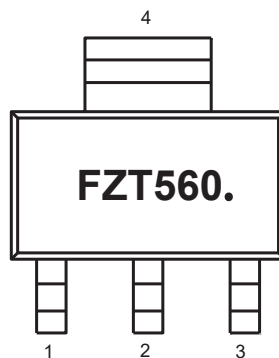
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure



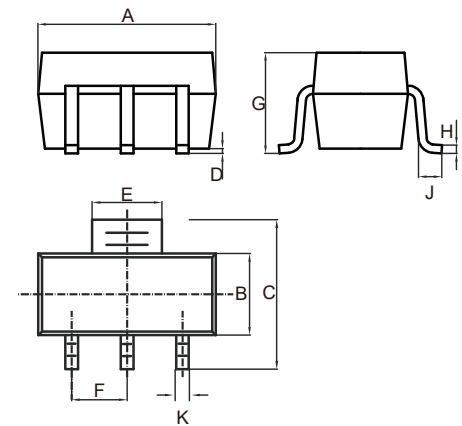
1.BASE
2,4.COLLECTOR
3.EMITTER

Marking Code



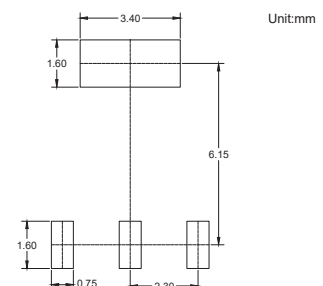
**PNP
High Voltage
Transistors**

SOT-223



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.248	0.264	6.30	6.70	
B	0.130	0.146	3.30	3.70	
C	0.264	0.287	6.70	7.30	
D	0.001	0.004	0.02	0.10	
E	0.114	0.122	2.90	3.10	
F	0.091		2.30		TYP.
G	---	0.071	---	1.80	
H	0.009	0.014	0.23	0.35	
J	0.030	---	0.75	---	
K	0.026	0.033	0.66	0.84	

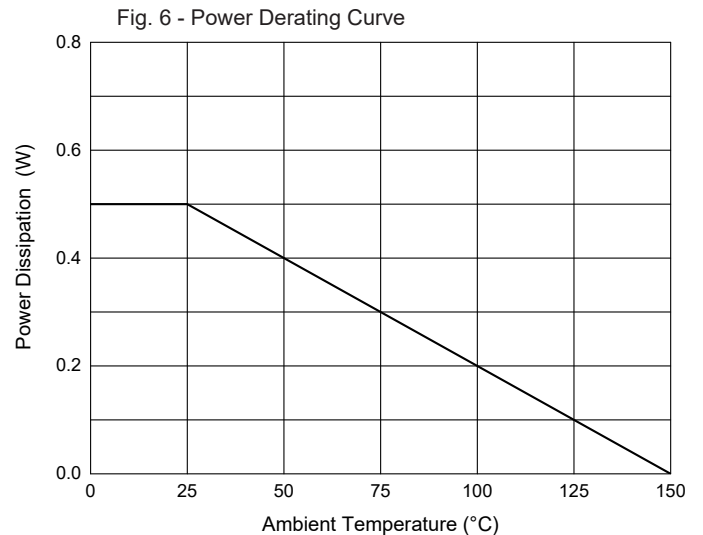
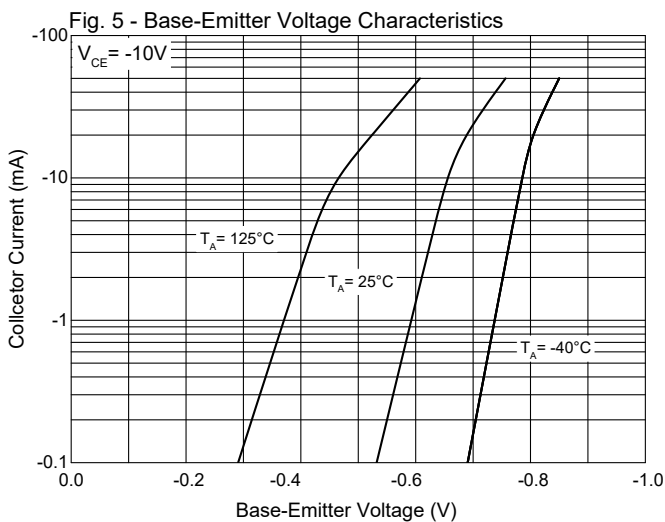
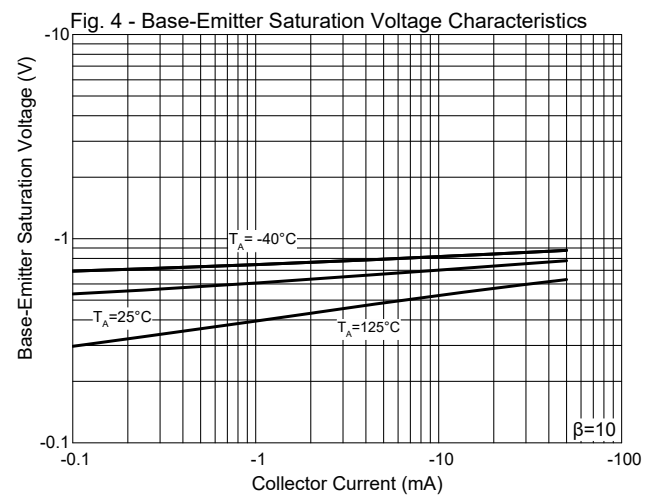
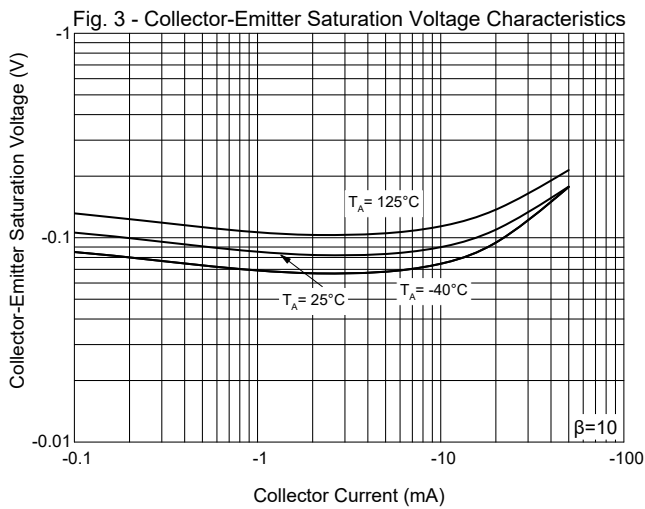
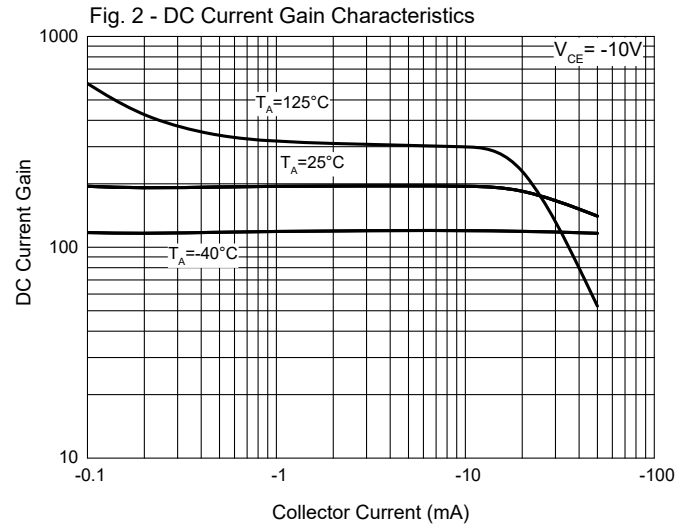
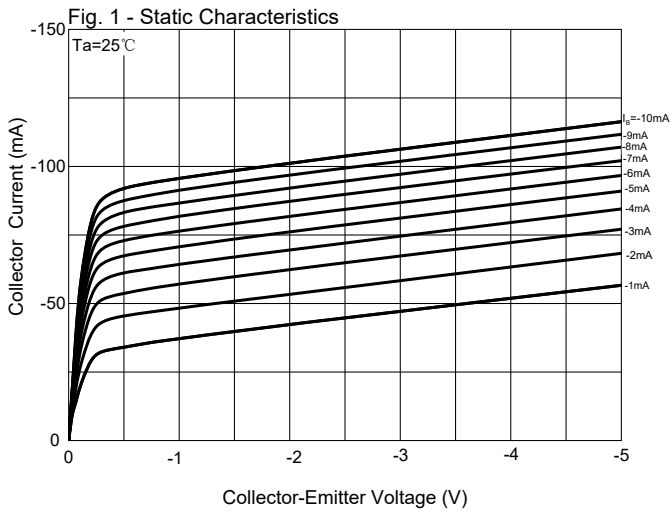
Suggested Solder Pad Layout



Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Typ	Max	Units	Conditions
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-500			V	$I_C = -100\mu A, I_E = 0$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-500			V	$I_C = -1mA, I_B = 0$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-7			V	$I_E = -100\mu A, I_C = 0$
Collector-Base Cutoff Current	I_{CBO}			-100	nA	$V_{CB} = -500V, I_E = 0$
Collector-Emitter Cutoff Current	I_{CES}			-100	nA	$V_{CE} = -500V, V_{BE} = 0$
Emitter-Base Cutoff Current	I_{EBO}			-100	nA	$V_{EB} = -5.6V, I_C = 0$
DC Current Gain	h_{FE1}	100		300		$V_{CE} = -10V, I_C = -1mA$
DC Current Gain	h_{FE2}	80		300		$V_{CE} = -10V, I_C = -50mA$
Collector-Emitter Saturation Voltage	$V_{CE(sat1)}$			-0.2	V	$I_C = -20mA, I_B = -2mA$
Collector-Emitter Saturation Voltage	$V_{CE(sat2)}$			-0.5	V	$I_C = -50mA, I_B = -10mA$
Base-Emitter Saturation Voltage	$V_{BE(sat)}$			-0.9	V	$I_C = -50mA, I_B = -10mA$
Base-Emitter Voltage	V_{BE}			-0.9	V	$V_{CE} = -10V, I_C = -50mA$
Output capacitance	C_{ob}		5.8		pF	$V_{CB} = -10V, f = 1MHz$

Curve Characteristics



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel; 2.5Kpcs/Reel

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