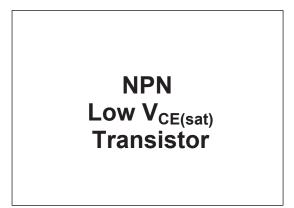


Features

- Low Collector-Emitter Saturation Voltage
- 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

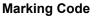
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	50	V
Collector-Emitter Voltage	V _{CEO}	50	V
Emitter-Base Voltage	V _{EBO}	5	V
Collector Current	I _C	3	A
Power Dissipation	PD	500	mW

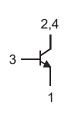
Thermal characteristics

Parameter	Symbol	Rating	Unit
Junction Temperature Range	TJ	-55~+150	°C
Storage Temperature Range	T _{STG}	-55~+150	°C
Thermal Resistance from Junction to Ambient	Rth _(J-A)	250	°C/W

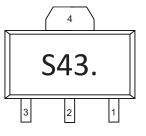
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

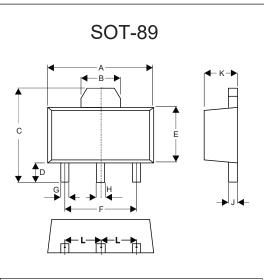
Internal Structure





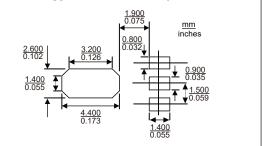
1.Emitter 2,4.Collector 3.Base





	DIMENSIONS						
I	DIM	INCHES		MM		NOTE	
	DIN	MIN	MAX	MIN	MAX	NOTE	
	Α	0.169	0.185	4.30	4.70		
	В	0.0	0.061		55	TYP.	
	С	0.154	0.171	3.91	4.35		
	D	0.031	0.047	0.80	1.20		
	E	0.089	0.104	2.25	2.65		
	F	0.118		3.00		TYP.	
	G	0.013	0.020	0.33	0.52		
	Н	0.015	0.021	0.38	0.53		
	J	0.014	0.017	0.35	0.44		
	К	0.055	0.063	1.40	1.60		
	L	0.0)59	1.50		TYP.	

Suggested Solder Pad Layout



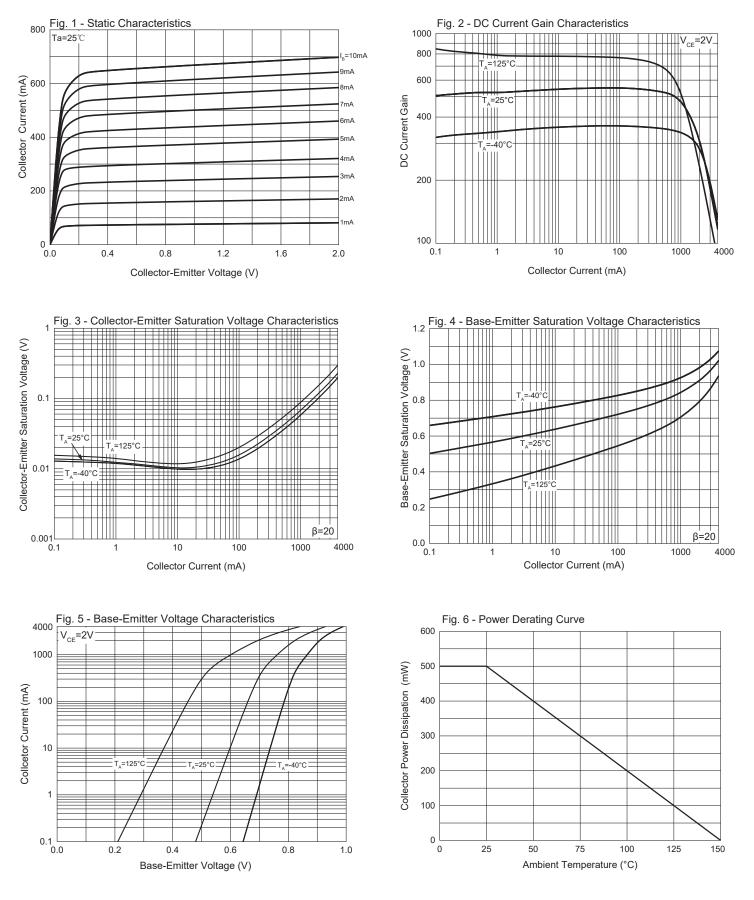


Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Мах	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	50			V	I _C =100uA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	50			V	I _C =10mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	5			V	I _E =100uA, I _C =0
Collector-Base Cutoff Current	I _{CBO}			100	nA	V_{CB} =50V, I _E =0
Emitter-Base Cutoff Current	I _{EBO}			100	nA	V_{EB} =5V, I _C =0
Collector-Emitter Cutoff Current	I _{CES}			100	nA	V_{CE} =50V, V_{BE} =0
	h _{FE(1)}	300				V _{CE} =2V, I _C =100mA
	h _{FE(2)}	300				V_{CE} =2V, I _C =500mA
DC Current Gain	h _{FE(3)}	300		700		V _{CE} =2V, I _C =1A
	h _{FE(4)}	200				V _{CE} =2V, I _C =2A
	h _{FE(5)}	100				V_{CE} =2V, I _C =3A
	V _{CE(sat)1}			80	mV	I _C =500mA, I _B =50mA
	V _{CE(sat)2}			160	mV	I _C =1A, I _B =50mA
Collector-Emitter Saturation Voltage	V _{CE(sat)3}			280	mV	I _C =2A, I _B =100mA
	V _{CE(sat)4}			260	mV	I _C =2A, I _B =200mA
	V _{CE(sat)5}			370	mV	I _C =3A, I _B =300mA
	V _{BE(sat)1}			1.1	V	I _C =2A, I _B =100mA
Base-Emitter Saturation Voltage	V _{BE(sat)2}			1.2	V	I _C =3A, I _B =300mA
Base-Emitter Turn-on Voltage	V _{BE(on)}			1.1	V	V _{CE} =2V,I _C =1A
Transition Frequency	f⊤	100			MHz	V _{CE} =5V, I _C =100mA, f=100MHz
Collector Capacitance	C _{ob}			25	pF	V _{CB} =10V, I _E =0, f=1MHz



Curve Characteristics





Ordering Information

Device	Packing		
Part Number-TP	Tape&Reel: 1Kpcs/Reel		

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