

Features

- Low Current
- Low 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

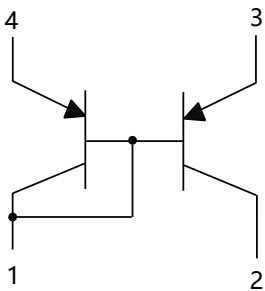
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	-30	V
Collector-Emitter Voltage	V_{CEO}	-30	V
Emitter-Base Voltage	V_{EBO}	-6	V
Continuous Collector Current	I_C	-0.1	A
Peak Collector Current	I_{CM}	-0.2	A
Power Dissipation	P_D	250	mW

Thermal characteristics

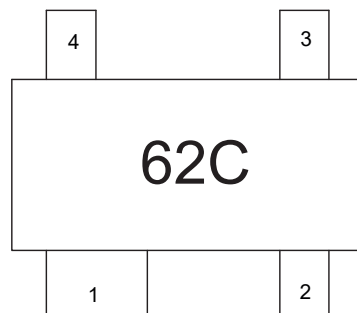
Parameter	Symbol	Rating	Unit
Operating Junction Temperature Range	T_{OPR}	-65~+150	°C
Storage Temperature Range	T_{STR}	-65~+150	°C
Thermal Resistance from Junction to Ambient	$R_{th(j-a)}$	500	°C/W

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

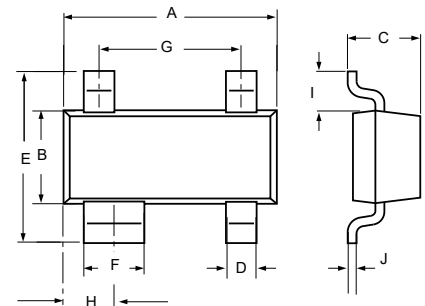


Device Marking



**PNP
General-purpose
Double Transistor**

SOT-143

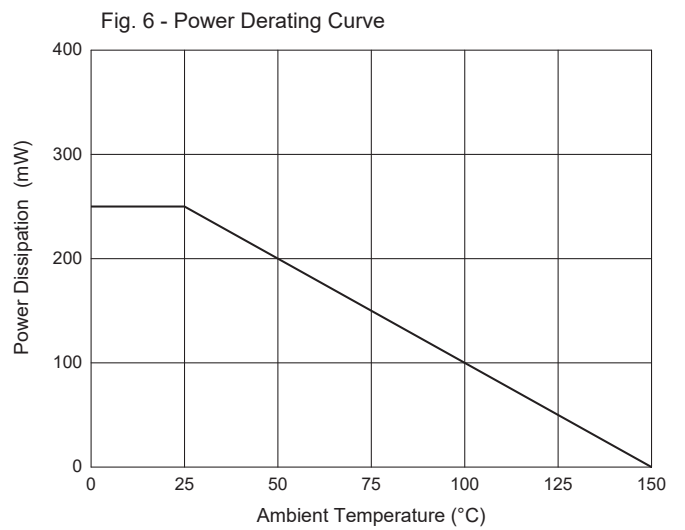
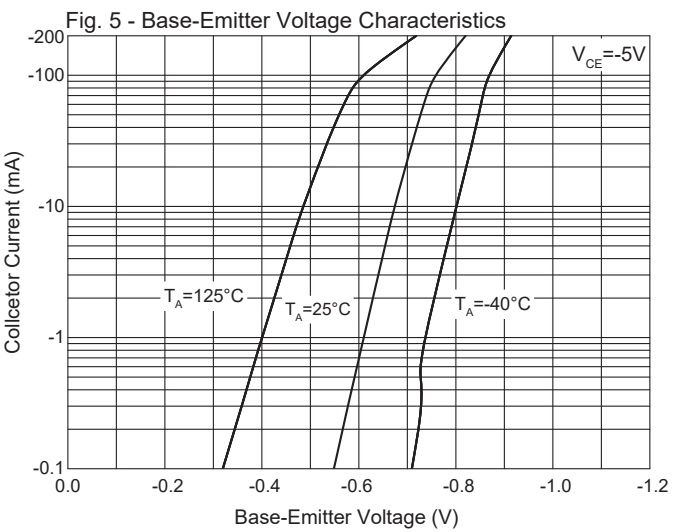
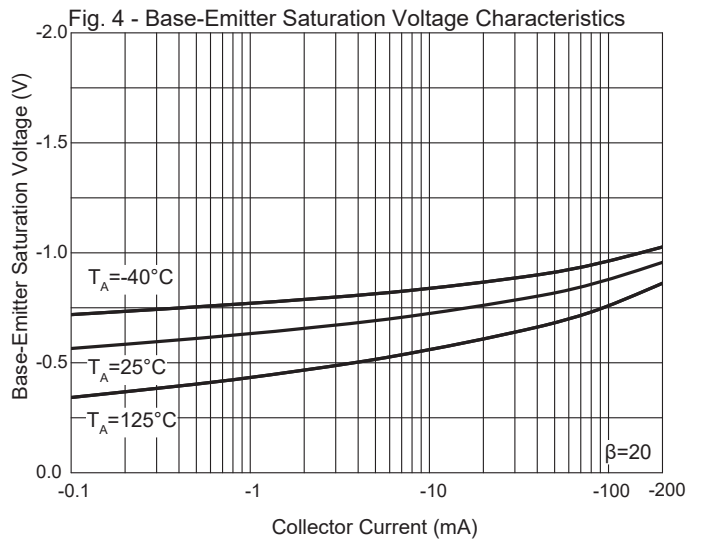
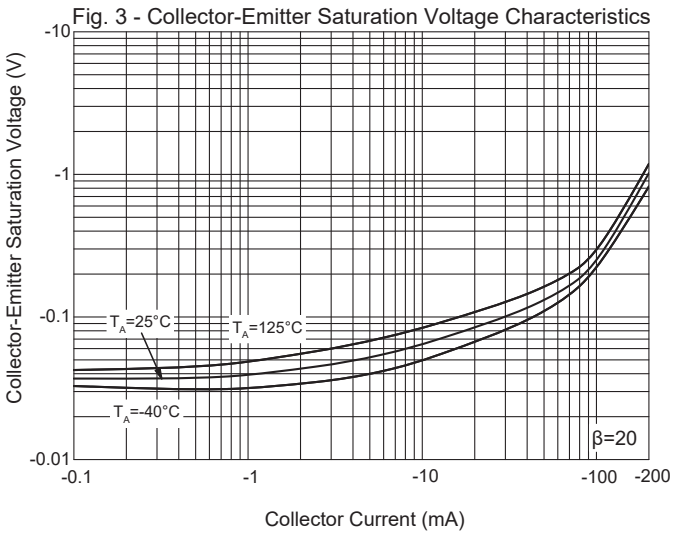
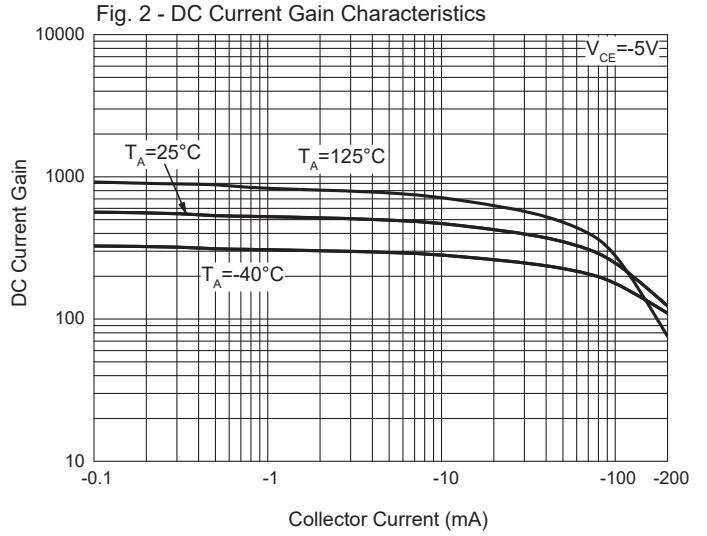
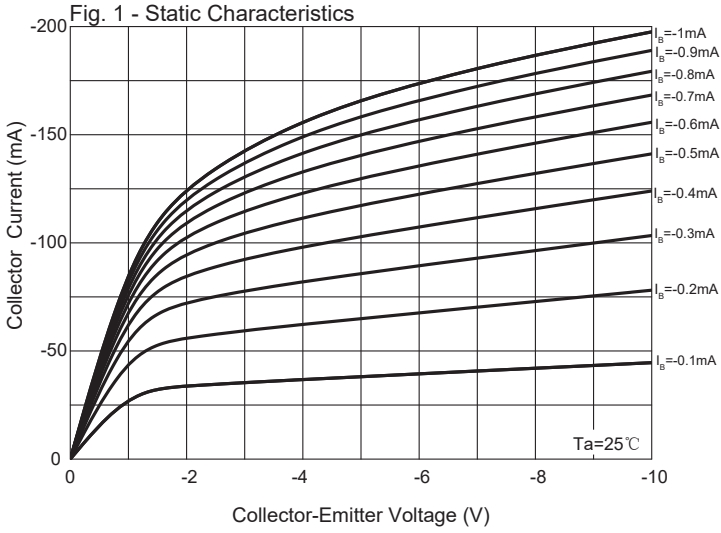


DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.110	0.120	2.80	3.04	
B	0.047	0.055	1.20	1.39	
C	0.031	0.048	0.80	1.22	
D	0.011	0.020	0.30	0.51	
E	0.082	0.104	2.10	2.64	
F	0.029	0.037	0.76	0.94	
G	0.070	0.080	1.78	2.03	
H	0.028	0.033	0.72	0.83	
I	0.015	0.024	0.40	0.60	
J	0.003	0.008	0.08	0.20	

Electrical Characteristics @ $T_A=25^\circ\text{C}$ Unless Otherwise Specified

Parameter	Symbol	Min	Typ	Max	Units	Conditions
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-30			V	$I_C=-100\mu\text{A}, I_E=0$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-30			V	$I_C=-10\text{mA}, I_B=0$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-6			V	$I_E=-100\mu\text{A}, I_C=0$
Collector-Base Cutoff Current	I_{CBO}			-15	nA	$V_{CB}=-30\text{V}, I_E=0$
Emitter-Base Cutoff Current	I_{EBO}			-100	nA	$V_{EB}=-5\text{V}, I_C=0$
DC Current Gain	$h_{FE(1)}$	100				$V_{CE}=-5\text{V}, I_C=-100\mu\text{A}$
	$h_{FE(2)}$	420		800		$V_{CE}=-5\text{V}, I_C=-2\text{mA}$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$			-0.3	V	$I_C=-10\text{mA}, I_B=-0.5\text{mA}$
				-0.65	V	$I_C=-100\text{mA}, I_B=-5\text{mA}$
Base-Emitter Saturation Voltage	$V_{BE(sat)}$		-0.7		V	$I_C=-10\text{mA}, I_B=-0.5\text{mA}$
			-0.9		V	$I_C=-100\text{mA}, I_B=-5\text{mA}$
Base-Emitter Turn-on Voltage	$V_{BE(on)}$	-0.58	-0.62	-0.75	V	$V_{CE}=-5\text{V}, I_C=-2\text{mA}$
				-0.82	V	$V_{CE}=-5\text{V}, I_C=-10\text{mA}$
Transition Frequency	f_T	100			MHz	$V_{CE}=-5\text{V}, I_C=-10\text{mA}, f=100\text{MHz}$
Collector Output Capacitance	C_{ob}		4.5		pF	$V_{CB}=-10\text{V}, I_E=0, f=1\text{MHz}$

Curve Characteristics



Ordering Information

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

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