

Features

- Epitaxial Planar Die Construction
- Ideal for Medium Power Amplification and Switching
- 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

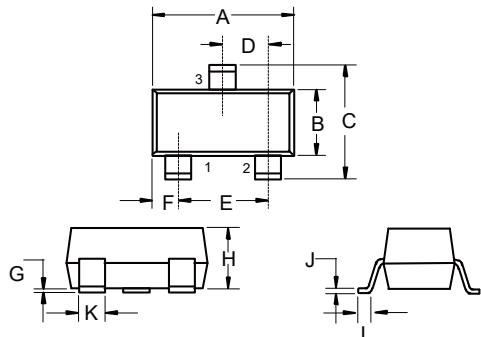
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 625°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	300	V
Collector-Emitter Voltage	V_{CEO}	300	V
Emitter-Base Voltage	V_{EBO}	6	V
Continuous Collector Current	I_C	200	mA
Power Dissipation	P_D	200	mW

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

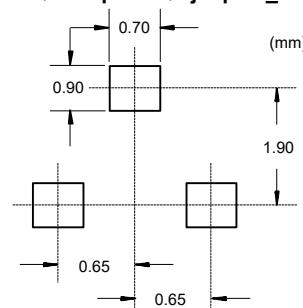
NPN Silicon High Voltage Transistor

SOT-323



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.071	0.087	1.80	2.20	
B	0.045	0.053	1.15	1.35	
C	0.083	0.096	2.10	2.45	
D	0.026		0.65		TYP.
E	0.047	0.055	1.20	1.40	
F	0.012	0.016	0.30	0.40	
G	0.000	0.004	0.00	0.10	
H	0.035	0.044	0.90	1.10	
J	0.002	0.010	0.05	0.25	
K	0.006	0.016	0.15	0.40	
L	0.010	0.018	0.26	0.46	

QseecqrcbĀQmjbcpĀN_bĀJ_wmsr

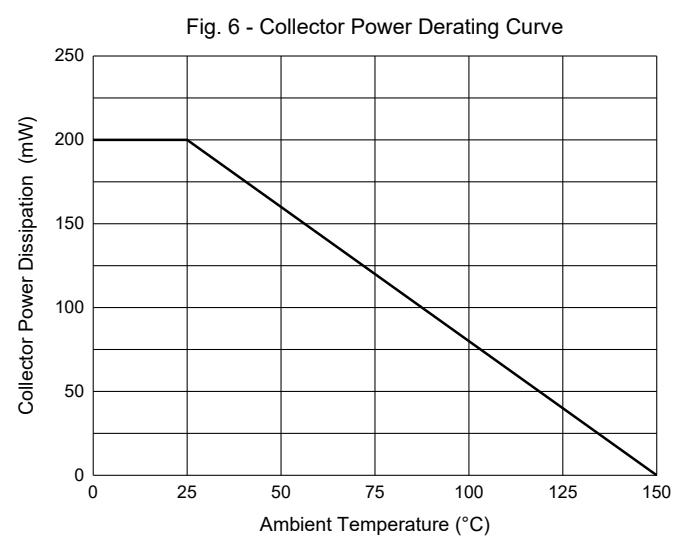
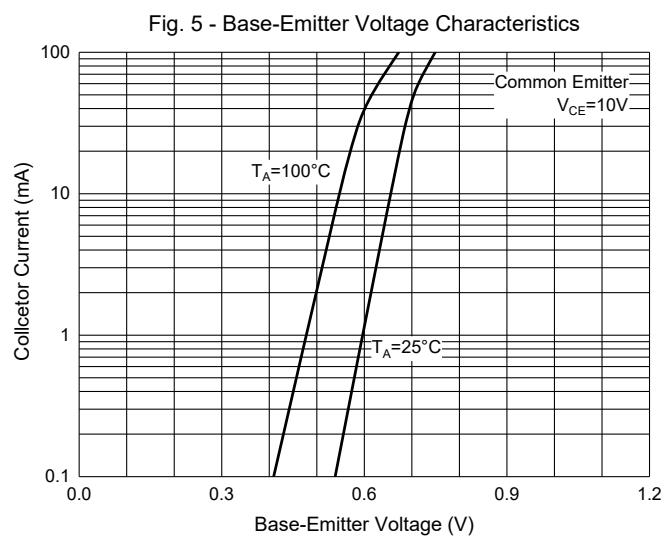
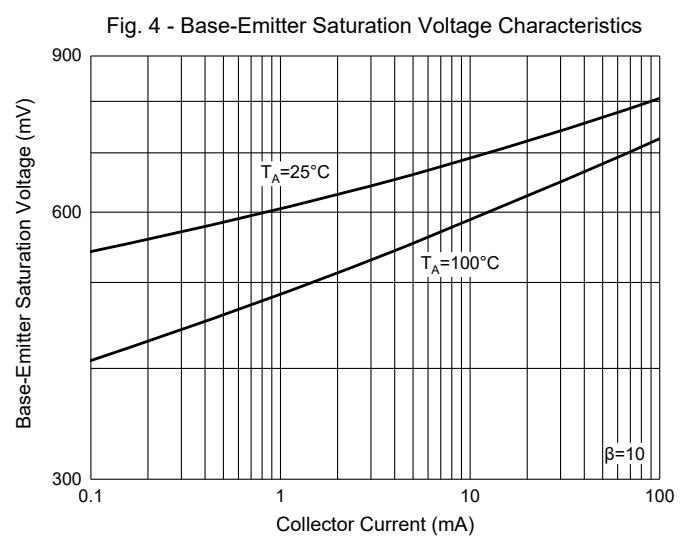
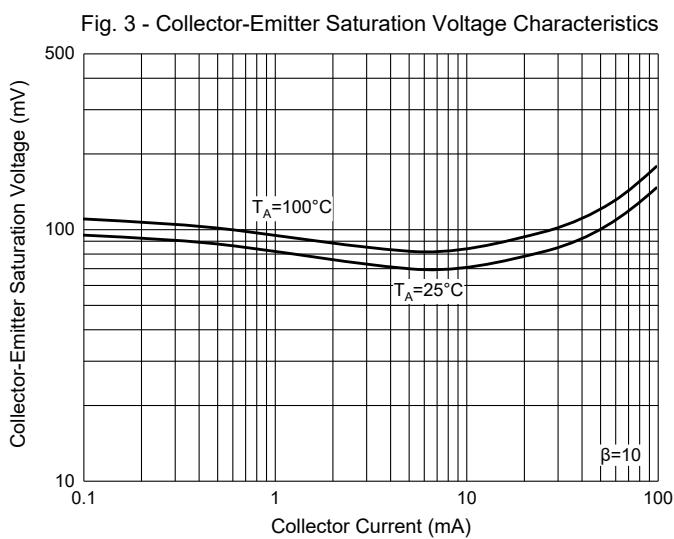
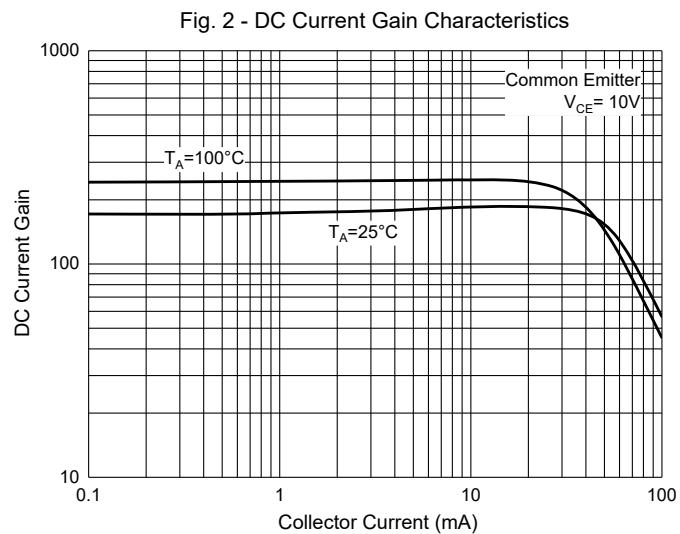
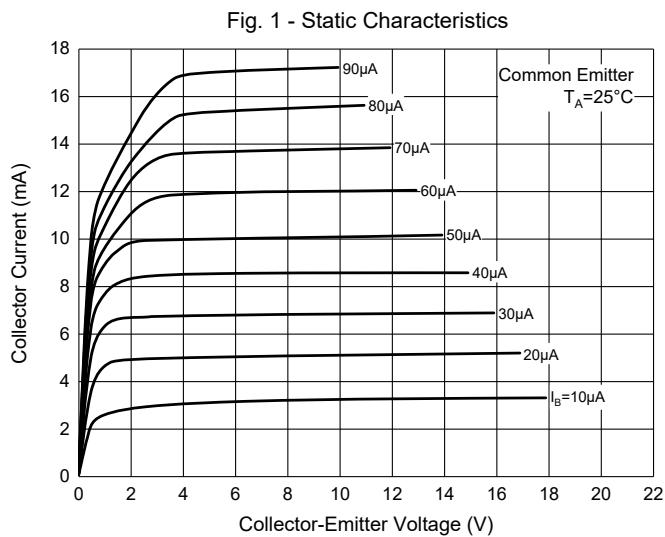


Electrical Characteristics @ $T_A=25^\circ\text{C}$ Unless Otherwise Specified

Parameter	Symbol	Min	Typ	Max	Units	Conditions
Collector-Base Breakdown Voltage	$V_{(\text{BR})\text{CBO}}$	300			V	$I_C=100\mu\text{A}, I_E=0$
Collector-Emitter Breakdown Voltage*	$V_{(\text{BR})\text{CEO}}$	300			V	$I_C=1\text{mA}, I_B=0$
Emitter-Base Breakdown Voltage	$V_{(\text{BR})\text{EBO}}$	6			V	$I_E=100\mu\text{A}, I_C=0$
Collector Cutoff Current	I_{CBO}			0.1	μA	$V_{\text{CB}}=200\text{V}, I_E=0$
Emitter Cutoff Current	I_{EBO}			0.1	μA	$V_{\text{EB}}=6\text{V}, I_C=0$
DC Current Gain*	$h_{FE(1)}$	25				$V_{\text{CE}}=10\text{V}, I_C=1\text{mA}$
	$h_{FE(2)}$	40				$V_{\text{CE}}=10\text{V}, I_C=10\text{mA}$
	$h_{FE(3)}$	40				$V_{\text{CE}}=10\text{V}, I_C=30\text{mA}$
Collector-Emitter Saturation Voltage	$V_{\text{CE}(\text{sat})}$			0.5	V	$I_C=20\text{mA}, I_B=2\text{mA}$
Base-Emitter Saturation Voltage	$V_{\text{BE}(\text{sat})}$			0.9	V	$I_C=20\text{mA}, I_B=2\text{mA}$
Transition Frequency	f_T	50			MHz	$V_{\text{CE}}=20\text{V}, I_C=10\text{mA}, f=100\text{MHz}$
Collector output Capacitance	C_{cb}			3	pF	$V_{\text{CB}}=20\text{V}, I_E=0, f=1\text{MHz}$

*.Pulse test: Pulse Width $\leq 300\mu\text{s}$,Duty Cycle $\leq 2.0\%$.

Curve Characteristics



Ordering Information

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

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