

Features

- Halogen Free. "Green" Device (Note 1)
- · AEC-Q101 Qualified
- 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}	-80	V
Collector-Emitter Voltage	V_{CEO}	-80	V
Emitter-Base Voltage	V _{EBO}	-5	V
Continuous Collector Current	I _C	-0.5	Α
Power Dissipation	P_{D}	200	mW

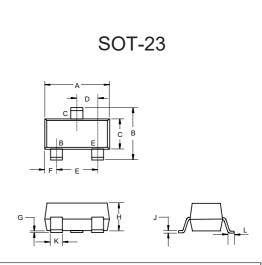
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure



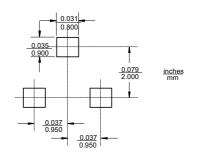
Marking: AKR

PNP Small Signal Transistor 200mW



DIMENSIONS					
DIM INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOIL
Α	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
Е	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.014	0.020	0.35	0.51	
L	0.007	0.020	0.20	0.50	

Suggested Solder Pad Layout



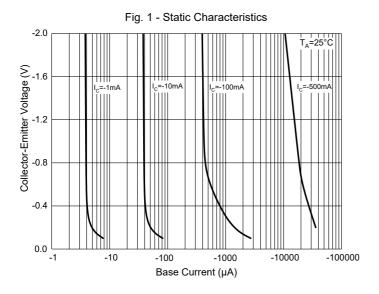


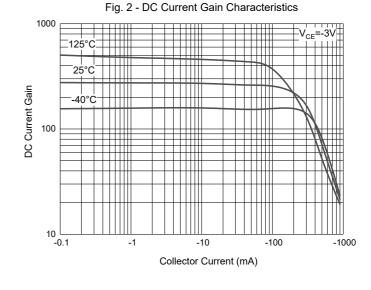
Electrical Characteristics @ T_A =25°C Unless Otherwise Specified

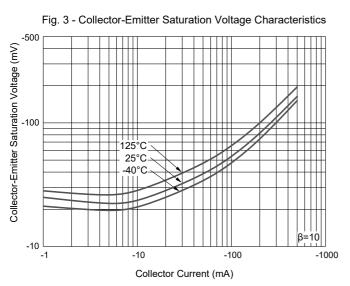
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-80			V	I _C =-50μA, I _E =0
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-80			V	$I_C=-2mA$, $I_B=0$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5			V	$I_{E}=-50\mu A, I_{C}=0$
Collector-Base Cutoff Current	I _{CBO}			-0.5	μA	V_{CB} =-50V, I_{E} =0
Emitter-Base Cutoff Current	I _{EBO}			-0.5	μA	V _{EB} =-4V, I _C =0
DC Current Gain	h _{FE}	180		390		V _{CE} =-3V, I _C =-100mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			-0.5	V	I _C =-500mA, I _B =-50mA
Collector-Emitter Saturation Voltage	V _{BE(sat)}			-1.2	V	I _C =-500mA, I _B =-50mA
Transition Frequency	f _T		180		MHz	V _{CE} =-10V, I _E =-50mA, f=100MHz

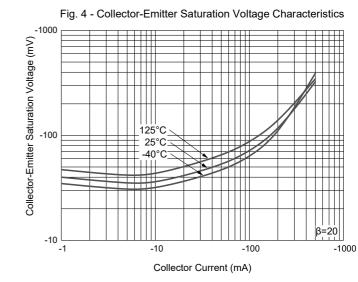


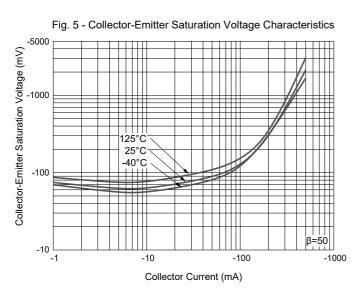
Curve Characteristics

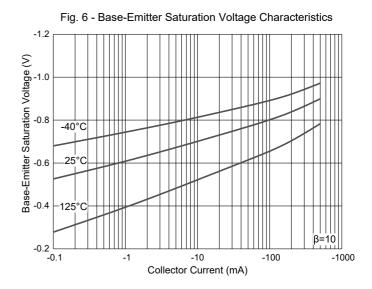








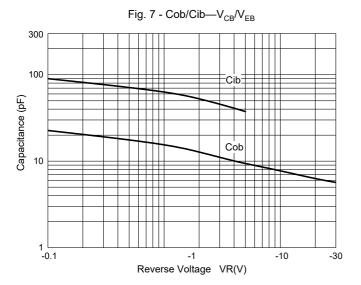




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Curve Characteristics





Ordering Information

Device	Packing
2SB1198HE3-R-TP	Tape&Reel: 3Kpcs/Reel

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