

Features

- Power Switching Application
- · Low Frequency Power Amplifier Application
- 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

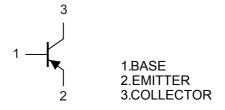
Storage Temperature Range: -55°C to +150°C

Thermal Resistance: 625°C/W Junction to Ambient

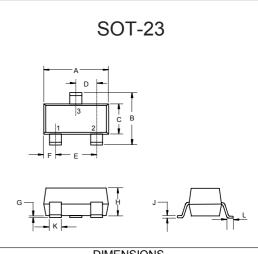
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	-35	V
Collector-Emitter Voltage	V _{CEO}	-30	V
Emitter-Base Voltage	V _{EBO}	-5	V
Continuous Collector Current	I _C	-800	mA
Power Dissipation	P_{D}	200	mW

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

Internal Structure

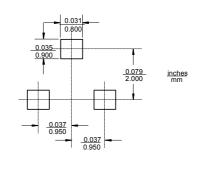


PNP General Purpose Amplifier



DIMENSIONS					
DIM INCH		HES N		M	NOTE
Dilvi	MIN	MAX	MIN	MAX	NOTE
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	
E	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	0.012	0.020	0.30	0.51	
L	0.007	0.020	0.20	0.50	

Suggested Solder Pad Layout





Electrical Characteristics @ T_A =25°C Unless Otherwise Specified

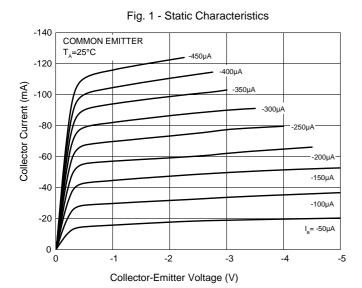
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-35			V	I _C =-1mA, I _E =0
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-30			V	I _C =-10mA, I _B =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5			V	I _E =-1mA, I _C =0
Collector-Base Cutoff Current	I _{CBO}			-0.1	μA	V_{CB} =-30V, I_{E} =0
Emitter-Base Cutoff Current	I _{EBO}			-0.1	μA	V _{EB} =-5V, I _C =0
DC Current Gain	h _{FE(1)}	100		320		V _{CE} =-1V, I _C =-100mA
	h _{FE(2)}	40				V _{CE} =-1V, I _C =-800mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			-0.4	V	I _C =-500mA, I _B =-20mA
Base-Emitter Voltage	V_{BE}	-0.5		-0.8	V	V _{CE} =-1V, I _C =-10mA
Transition Frequency	f _T		250		MHz	V _{CE} =-5V,I _C =-10mA
Collector Output Capacitance	C _{ob}		13		pF	V _{CB} =-10V,I _E =0,f=1MHz

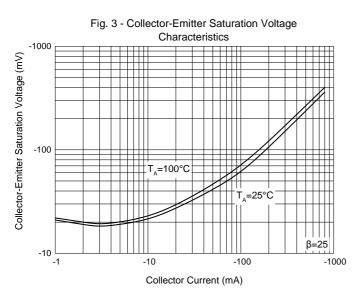
Classification of h_{FE(1)}

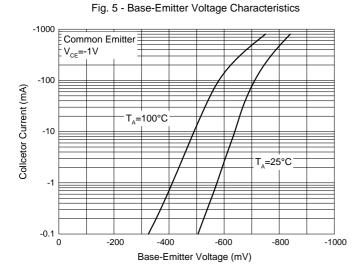
Rank	0	Y
Range	100-200	160-320
Marking	IO	IY

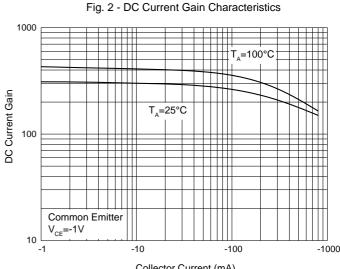


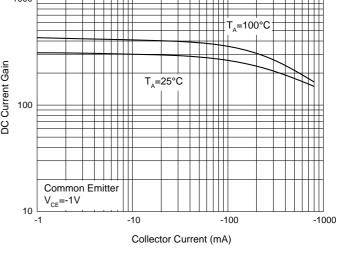
Curve Characteristics

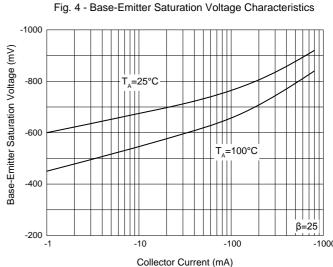


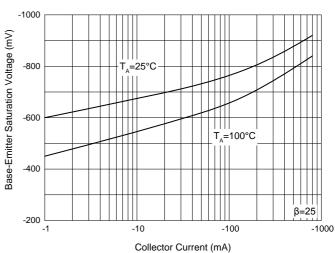


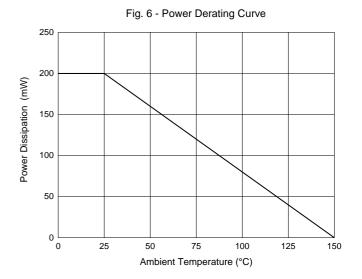














Ordering Information

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

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