

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- 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)

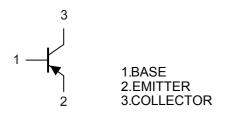
Maximum Ratings @ 25°C Unless Otherwise Specified

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 417°C/W Junction to Ambient

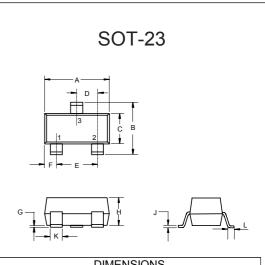
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	-40	V
Collector-Emitter Voltage	V _{CEO}	-25	V
Emitter-Base Voltage	V_{EBO}	-5	V
Continuous Collector Current	I _C	-500	mA
Power Dissipation	P _D	300	mW

Marking: 2TY

Internal Structure

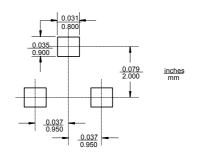


PNP Silicon Plastic-Encapsulate Transistor



DIMENSIONS					
DIM	INC	HES	MM		NOTE
Dilvi	MIN	MAX	MIN	MAX	INOTE
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	0.012	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

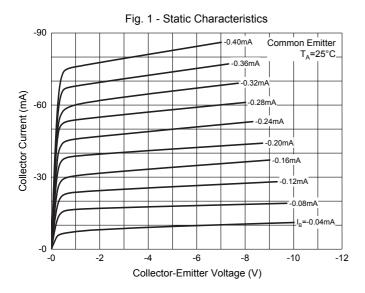
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-40			V	I _C =-100μA, I _E =0
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-25			V	I _C =-1mA, I _B =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5			V	I _E =-100μA, I _C =0
Collector-Base Cutoff Current	I _{CBO}			-0.1	μA	V_{CB} =-40V, I_{E} =0
Collector Cutoff Current	I _{CEO}			-0.1	μA	V _{CE} =-20V, I _B =0
Emitter-Base Cutoff Current	I _{EBO}			-0.1	μA	V _{EB} =-5V, I _C =0
DC Current Gain	h _{FE(1)}	120		350		V _{CE} =-1V, I _C =-50mA
	h _{FE(2)}	50				V _{CE} =-1V, I _C =-500mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			-0.6	V	I _C =-500mA, I _B =-50mA
Base-Emitter Saturation Voltage	V _{BE(sat)}			-1.2	V	I _C =-500mA, I _B =-50mA
Base-Emitter Voltage	V_{BE}			-1.4	V	I _E =-100mA
Transition Frequency	f _T	150			MHz	V_{CE} =-6V, I_{C} =-20mA, f=30MHz

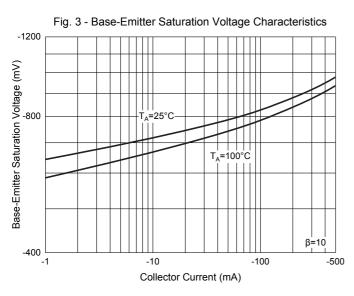
Classification of h_{FE(1)}

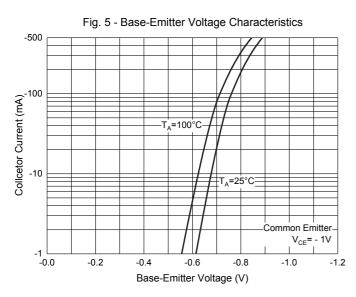
Rank	L	Н	
Range	120-200	200-350	

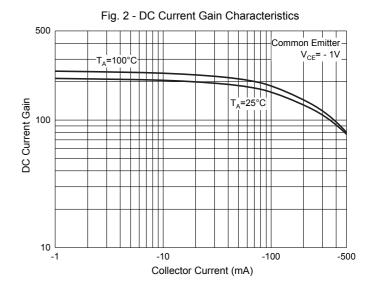


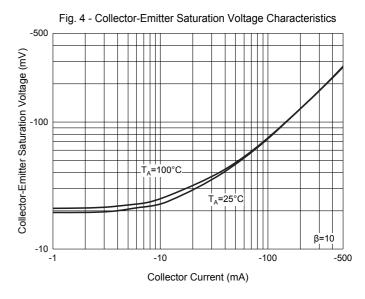
Curve Characteristics

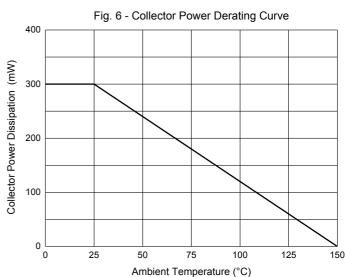














Ordering Information

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

Note: Adding "-HF" Suffix for Halogen Free, eg. Part Number-TP-HF

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