

Features

- · Ultra-Small Suface Mount Package
- 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)

PNP Plastic-Encapsulate Transistors

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: 1250°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	-80	V
Collector-Emitter Voltage	V _{CEO}	-65	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	Ic	-100	mA
Collector Power Dissipation	P _C	100	mW

Internal Structure



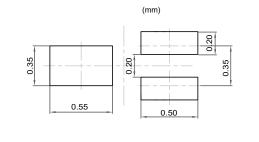
- 1. BASE
- 2. EMITTER
- 3. COLLECTOR

Marking: D1

SOT-883

DIMENSIONS						
DIM INCHES		MM		NOTE		
MIN	MAX	MIN	MAX	NOTE		
0.018	0.022	0.45	0.55			
0.000	0.004	0.01	0.10			
0.037	0.041	0.95	1.05			
0.022	0.026	0.55	0.65			
0.018		0.450		REF.		
0.018		0.450		REF.		
0.011	0.015	0.27	0.37			
0.004	0.008	0.10	0.20			
0.025		0.635		REF.		
0.012	0.016	0.30	0.40			
0.008	0.012	0.20	0.30			
0.002		0.050		REF.		
0.011	0.015	0.27	0.37			
	MIN 0.018 0.000 0.037 0.022 0.0 0.011 0.004 0.012 0.008 0.0	INCHES MIN MAX 0.018 0.022 0.000 0.004 0.037 0.041 0.022 0.026 0.018 0.018 0.011 0.015 0.004 0.008 0.025 0.012 0.016 0.008 0.012 0.002	INCHES M MIN MAX MIN 0.018 0.022 0.45 0.000 0.004 0.01 0.037 0.041 0.95 0.022 0.026 0.55 0.018 0.4 0.018 0.4 0.011 0.015 0.27 0.004 0.008 0.10 0.025 0.6 0.012 0.016 0.30 0.008 0.012 0.20 0.002 0.002 0.0	INCHES MM MIN MAX MIN MAX 0.018 0.022 0.45 0.55 0.000 0.004 0.01 0.10 0.037 0.041 0.95 1.05 0.022 0.026 0.55 0.65 0.018 0.450 0.011 0.015 0.27 0.37 0.004 0.008 0.10 0.20 0.025 0.635 0.012 0.016 0.30 0.40 0.008 0.012 0.20 0.30 0.002 0.050 0.050		

Suggested Solder Pad Layout



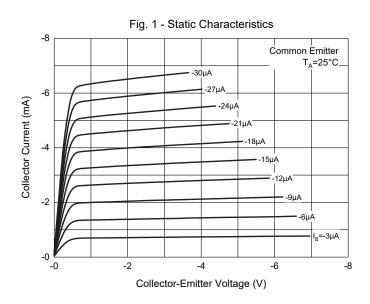


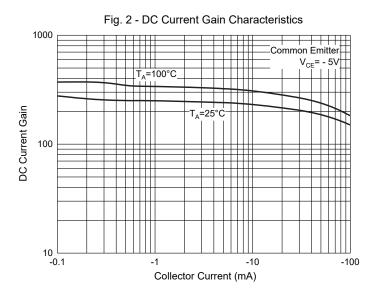
Electrical Characteristics @ 25°C Unless Otherwise Specified

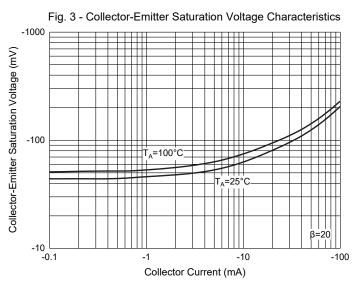
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-80			V	I _C =-10μA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	-65			V	I _C =-10mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	-5			V	I_{E} =-1 μ A, I_{C} =0
Collector-Base Cutoff Current	I _{CBO}			-100	nA	V _{CB} =-70V, I _E =0
Collector-Emitter Cutoff Current	I _{CEO}			-100	nA	V _{CB} =-60V, I _B =0
Emitter-Base Cutoff Current	I _{EBO}			-100	nA	V_{EB} =-5V, I_C =0
DC Current Gain	h _{FE}	220		475		V _{CE} =-5V, I _C =-2mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			-0.5	V	I _C =-100mA, I _B =-5mA
Base-Emitter Saturation Voltage	V _{BE(sat)}			-1.1	V	I _C =-100mA, I _B =-5mA
Collector Output Capacitance	C _{ob}			4.5	pF	V _{CB} =-10V, I _E =0, f=1MHz
Transition Frequency	f _T	100			MHz	V _{CE} =-5V, I _C =-10mA, f=100MHz

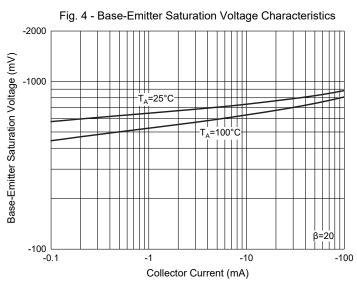


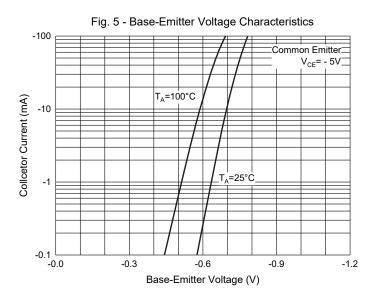
Curve Characteristics

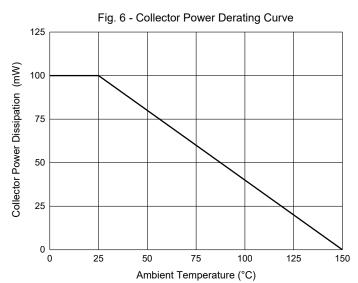














Ordering Information

Device	Packing		
Part Number-TP	Tape&Reel: 10Kpcs/Reel		

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

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