

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	I _C	-100	mA
Collector Power Dissipation	P _C	100	mW

Internal Structure



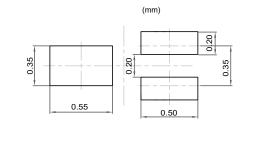
- 1. BASE
- 2. EMITTER
- 3. COLLECTOR

Marking: D1

SOT-883

DIMENSIONS					
DIM	INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.018	0.022	0.45	0.55	
В	0.000	0.004	0.01	0.10	
С	0.037	0.041	0.95	1.05	
D	0.022	0.026	0.55	0.65	
Е	0.018		0.450		REF.
F	0.018		0.450		REF.
G	0.011	0.015	0.27	0.37	
Н	0.004	0.008	0.10	0.20	
J	0.025		0.635		REF.
K	0.012	0.016	0.30	0.40	
L	0.008	0.012	0.20	0.30	
М	0.002		0.050		REF.
Ν	0.011	0.015	0.27	0.37	
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Suggested Solder Pad Layout



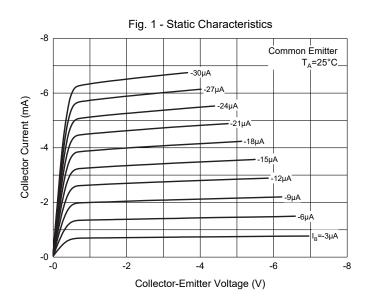


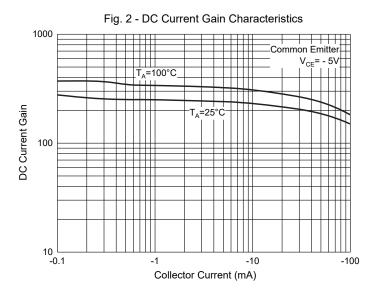
Electrical Characteristics @ 25°C Unless Otherwise Specified

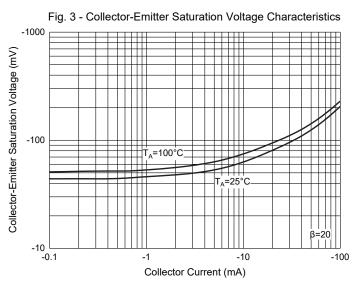
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-80			V	I _C =-10μA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	-65			V	I _C =-10mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	-5			V	I _E =-1μA, I _C =0
Collector-Base Cutoff Current	I _{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

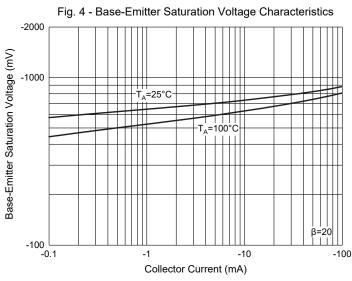


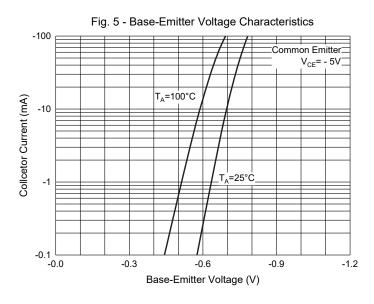
Curve Characteristics

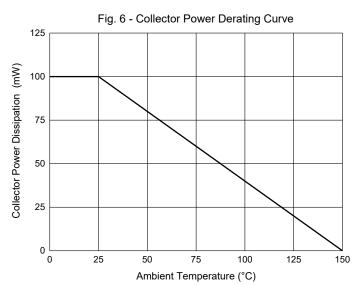














Ordering Information

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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