

Features

- · High Current Gain
- · Ideal for Medium Power Amplification and Switching
- 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

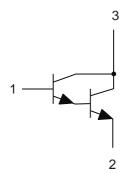
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	80	V
Collector-Emitter Voltage	V _{CEO}	80	V
Emitter-Base Voltage	V _{EBO}	12	V
Continuous Collector Current	I _C	600	mA
Power Dissipation	P_{D}	200	mW

Note:

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

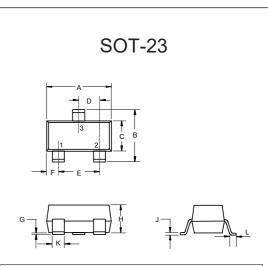
Marking: 3SS

Internal Structure



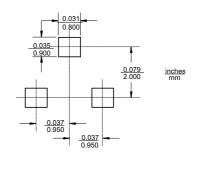
1.BASE 2.EMITTER 3.COLLECTOR

NPN Surface Mount Darlington Transistor



	DIMENSIONS				
DIM INC		HES	MM		NOTE
DIIVI	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	
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



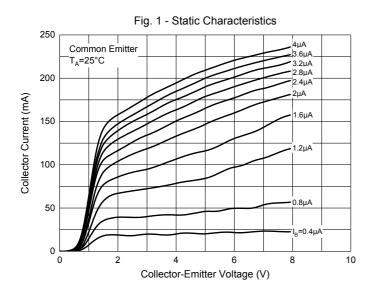


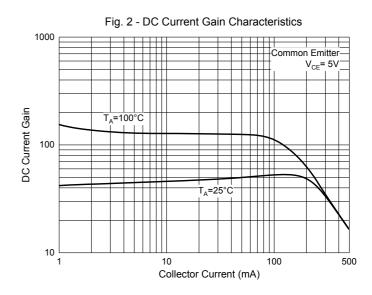
Electrical Characteristics @ T_A =25°C Unless Otherwise Specified

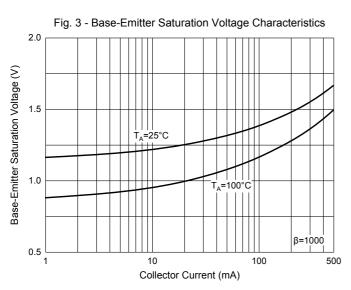
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	80			V	I _C =100μA, I _E =0
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	80			V	I _C =100μA, I _B =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	12			V	I _E =10μA, I _C =0
Collector Cutoff Current	I _{CBO}			0.1	μA	V _{CB} =60V, I _E =0
Emitter Cutoff Current	I _{EBO}			0.1	μA	V _{EB} =10V, I _C =0
DC Current Gain	h _{FE(1)}	10000				V _{CE} =5V, I _C =10mA
	h _{FE(2)}	10000				V_{CE} =5V, I_{C} =100mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			1.2	V	I _C =10mA, I _B =10μA
				1.5	V	I _C =100mA, I _B =100μA
Base-Emitter Voltage	V_{BE}			2.0	V	V_{CE} =5V, I_{C} =100mA
Transition Frequency	f _T	125			MHz	V _{CE} =5V, I _C =10mA, f=100MHz
Collector output Capacitance	C _{cb}			8	pF	V _{CB} =1V, I _E =0,f=1MHz

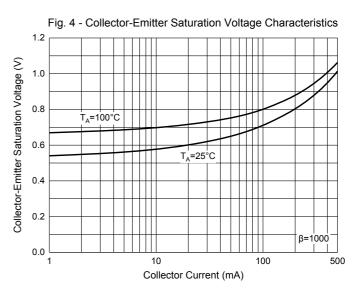


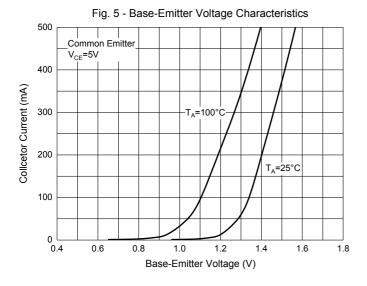
Curve Characteristics

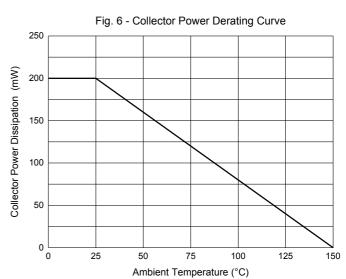














Ordering Information

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

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