

Features

- 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)

PNP Silicon Plastic-Encapsulate Transistor

Maximum Ratings

• 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}	-40	V
Collector-Emitter Voltage	V _{CEO}	-25	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	I _C	-1.5	Α
Power Dissipation	P _D	200	mW

Classification of h_{FE(1)}

Part Number	MMSS8550W-L	MMSS8550W-H	MMSS8550W-J
Range	120-200	200-350	300-400

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

SOT-323

DIMENSIONS						
DIM INCHES		M	M	NOTE		
DIIVI	MIN	MAX	MIN	MAX	NOIL	
Α	0.071	0.087	1.80	2.20		
В	0.045	0.053	1.15	1.35		
С	0.083	0.096	2.10	2.45		
D	0.026		0.65		TYP.	
E	0.047	0.055	1.20	1.40		
F	0.012	0.016	0.30	0.40		
G	0.000	0.004	0.00	0.10		
Н	0.035	0.044	0.90	1.10		
J	0.002	0.010	0.05	0.25		
K	0.006	0.016	0.15	0.40		
L	0.010	0.018	0.26	0.46		

Suggested Solder Pad Layout 0.70 (mm) 0.90 1.90 1.90

Internal Structure



Marking: Y2



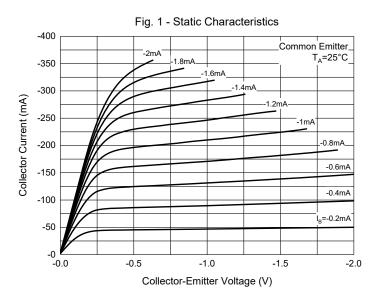
Electrical Characteristics @ 25°C Unless Otherwise Specified

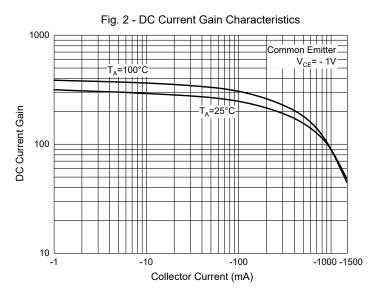
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-40			V	I _C =-100μA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	-25			V	I _C =-100μA, I _B =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5			V	I _E =-100μA, I _C =0
Collector-Base Cutoff Current	I _{CBO}			-100	nA	V _{CB} =-40V, I _E =0
Collector-Emitter Cutoff Current	I _{CEO}			-100	nA	V _{CE} =-20V, I _B =0
Emitter-Base Cutoff Current	I _{EBO}			-100	nA	$V_{EB} = -5V, I_C = 0$
DC Current Gain	h _{FE(1)}	120		400		V_{CE} =-1V, I_{C} =-100mA
DC Current Gain	h _{FE(2)}	40				V_{CE} =-1V, I_{C} =-800mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			-0.5	V	I _C =-800mA, I _B =-80mA
Base-Emitter Saturation Voltage	V _{BE(sat)}			-1.2	V	I _C =-800mA, I _B =-80mA
Collector Output Capacitance	C _{ob}			20	pF	V_{CB} =-10V, I_{E} =0, f=1MHz
Transition Frequency	f _T	100			MHz	V _{CE} =-10V, I _C =-50mA, f=30MHz

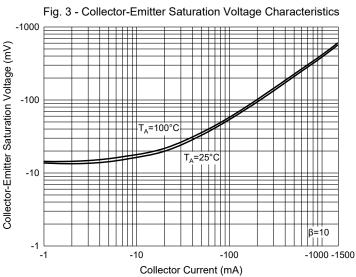
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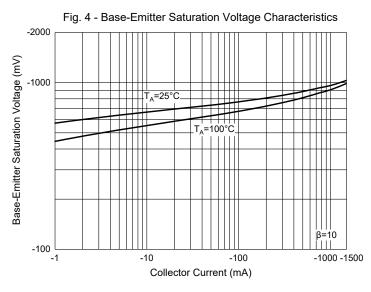


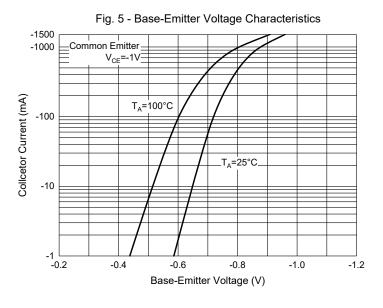
Curve Characteristics

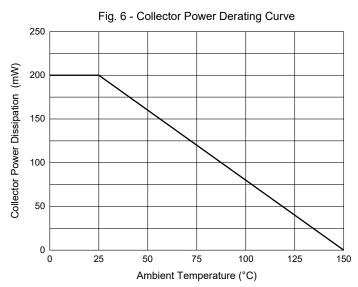














Ordering Information

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

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