

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)

NPN 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: 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
Collector Current	I _C	1.5	Α
Power Dissipation	P _D	300	mW

Classification of h_{FE(1)}

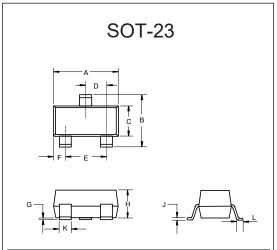
Part Number	MMSS8050-L	MMSS8050-H
Range	120-200	200-350

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

Internal Structure

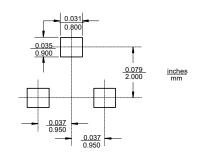


Marking: Y1



DIMENSIONS					
DIM	INC	HES	MM		NOTE
Dilvi	MIN	MAX	MIN	MAX	NOIL
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	0.014	0.020	0.35	0.51	
L	0.007	0.020	0.20	0.50	

Suggested Solder Pad Layout



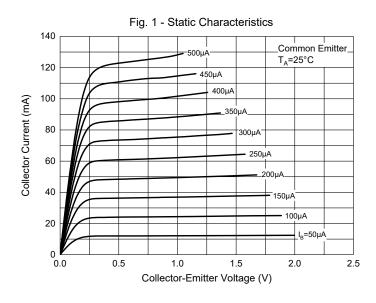


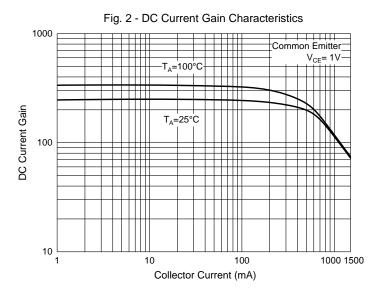
Electrical Characteristics @ 25°C Unless Otherwise Specified

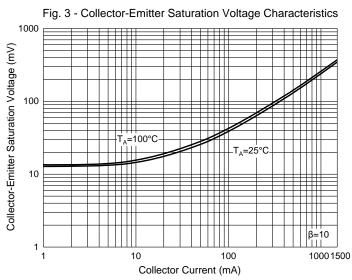
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	40			V	I _C =100μA, I _E =0
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	25			V	I _C =100μA, I _B =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	5			V	I _E =100μA, I _C =0
Collector-Base Cutoff Current	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		350		$V_{CE}=1V$, $I_{C}=100mA$
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
Base-Emitter Voltage	V_{BE}			1	V	$V_{CE}=1V$, $I_{C}=10mA$
Transition Frequency	f⊤	100			MHz	V _{CE} =10V, I _C =50mA, f=30MHz

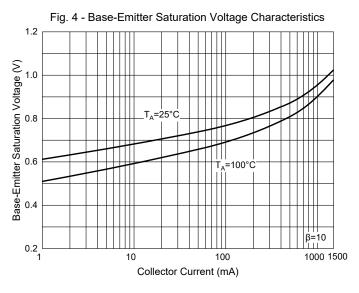


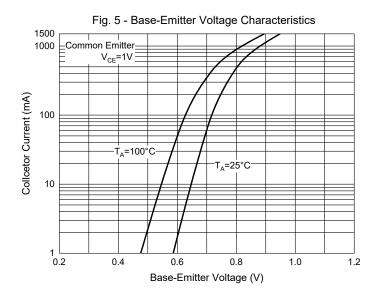
Curve Characteristics

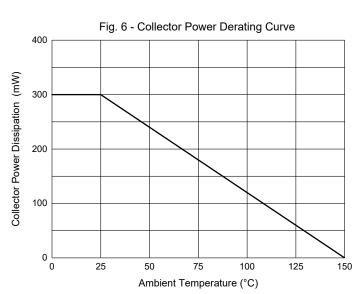














Ordering Information

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

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