

Features

- Complement to MMBT1015
- High h_{FE} Linearity
- 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

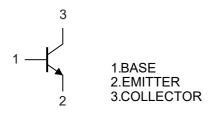
- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 500°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	60	V
Collector-Emitter Voltage	V _{CEO}	50	V
Emitter-Base Voltage	V _{EBO}	5	V
Continuous Collector Current	I _C	150	mA
Continuous Base Current	I _B	50	mA
Power Dissipation	P _D	200	mW

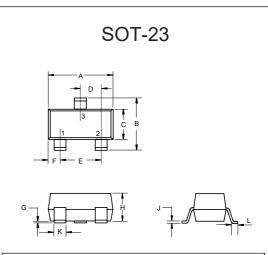
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Marking: HF

Internal Structure

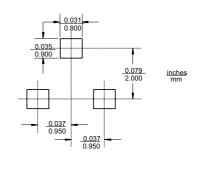


NPN EPITAXIAL SILICON TRANSISTOR



DIMENSIONS					
DIM	INCHES		MM		NOTE
	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	
E	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

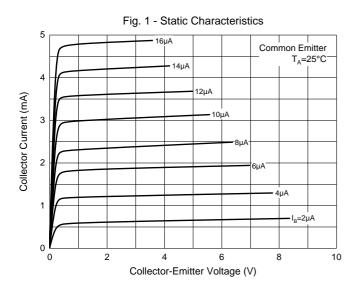
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Cutoff Current	I _{CBO}			0.1	μA	V _{CB} =60V, I _E =0
Emitter-Base Cutoff Current	I _{EBO}			0.1	μA	V_{EB} =5V, I_C =0
DC Current Gain	h _{FE}	130		400		V_{CE} =6V, I_{C} =2mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}		0.1	0.25	V	I _C =100mA, I _B =10mA
Base-Emitter Saturation Voltage	V _{BE(sat)}			1.0	V	I _C =100mA, I _B =10mA
Transition Frequency	f _T	80			MHz	V _{CE} =10V, I _C =1mA, f=30Hz
Collector Output Capacitance	C _{ob}		2	3	pF	V _{CB} =10V,I _E =0,f=1MHz
Noise Figure	N _F		1	10	dB	V_{CE} =6 V , I_{C} =-0.1 m A, f =100 H z, R_{g} =1 K Ω

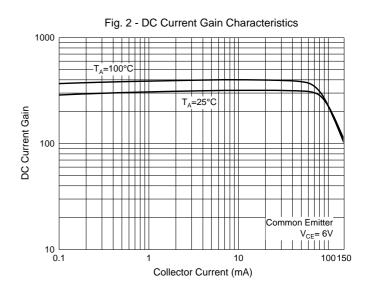
Classification of h_{FE}

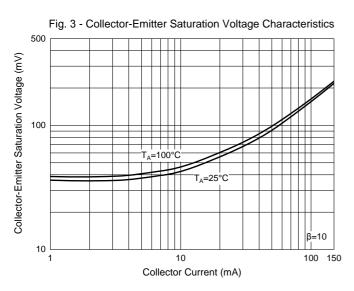
Rank	L	Н	
Range	130-200	200-400	

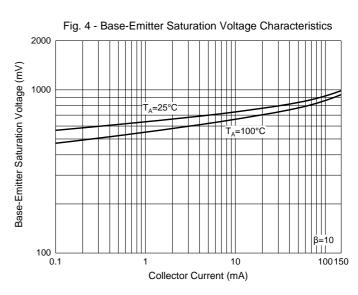


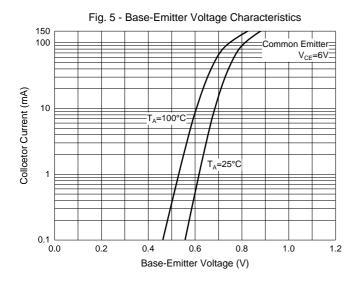
Curve Characteristics

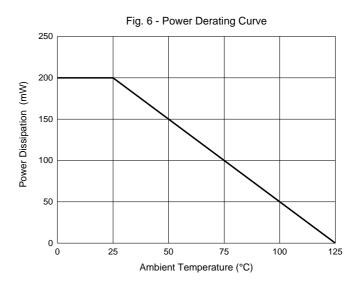














Ordering Information

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

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