

Features

- Halogen Free. "Green" Device (Note 1)
- · AEC-Q101 Qualified
- · 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 General Purpose Amplifier

Maximum Ratings @ 25°C Unless Otherwise Specified

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	-80	V
Collector-Emitter Voltage	V _{CEO}	-60	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current	I _C	-1	Α
Power Dissipation	P_D	300	mW

Thermal characteristics

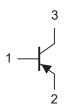
Parameter	Symbol	Rating	Unit
Junction Temperature Range	T_j	-55~+150	°C
Storage Temperature Range	T _{stg}	-55~+150	°C
Thermal Resistance from Junction to Ambient	Rth _(J-A)	417	°C/W

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-23

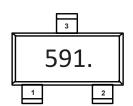
DIMENSIONS					
DIM INCHES		M	M	NOTE	
DIIVI	MIN	MAX	MIN	MAX	INOIL
Α	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
E	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.012	0.020	0.30	0.51	
L	0.007	0.020	0.20	0.50	

Internal Structure

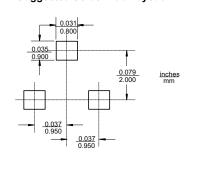


1.BASE 2.EMITTER 3.COLLECTOR

Marking Code



Suggested Solder Pad Layout



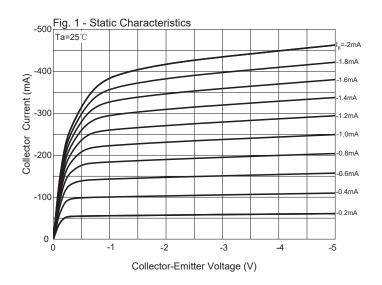


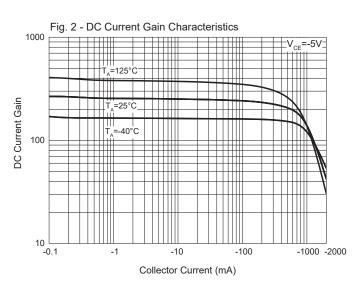
Electrical Characteristics @ T_A =25°C Unless Otherwise Specified

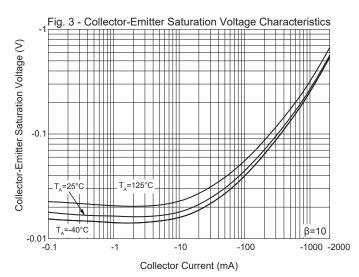
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-80			V	I _C =-100μA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	-60			V	I _C =-10mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	-5			V	I _E =-100μA, I _C =0
Collector-Base Cutoff Current	I _{CBO}			-0.1	μA	V _{CB} =-60V, I _E =0
Emitter-Base Cutoff Current	I _{EBO}			-0.1	μA	V_{EB} =-4V, I_{C} =0
DC Current Gain	h _{FE(1)}	100				V _{CE} =-5V, I _C =-1mA
	h _{FE(2)}	100		300		V_{CE} =-5V, I_{C} =-500mA
	h _{FE(3)}	80				V_{CE} =-5V, I_{C} =-1A
	h _{FE(4)}	15				V_{CE} =-5V, I_{C} =-2A
Collector-Emitter Saturation Voltage	V _{CE(sat)}			-0.3	V	I _C =-500mA, I _B =-50mA
				-0.6	V	I _C =-1A, I _B =-100mA
Base-Emitter Saturation Voltage	V _{BE(sat)}			-1.2	V	I _C =-1A, I _B =-100mA
Base-Emitter Voltage	V _{BE}			-1.0	V	V_{CE} =-5V, I_{C} =-1A
Transition Frequency	f _T	150			MHz	V _{CE} =-10V,I _C =-50mA,f=100MHz
Output Capacitance	C _{ob}			18	pF	V _{CB} =-10V, I _E =0, f=1MHz

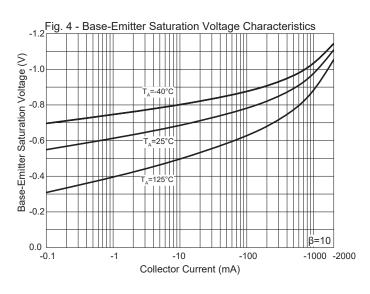


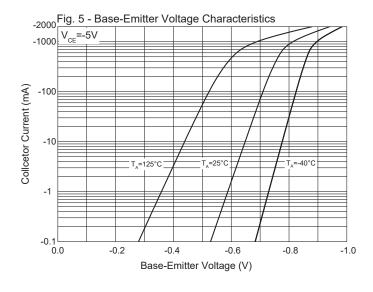
Curve Characteristics

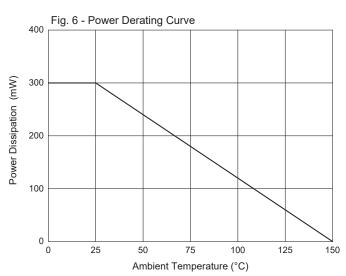














Ordering Information

Device	Packing		
FMMT591HE3-TP	Tape&Reel: 3Kpcs/Reel		

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