

Features

- · High Current Gain Bandwidth Product
- Designed for VHF/UHF Amplifier Applications and High Output VHF Oscillators
- 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

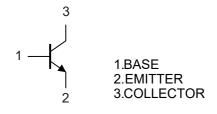
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 556°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	30	V
Collector-Emitter Voltage	V_{CEO}	25	V
Emitter-Base Voltage	V_{EBO}	3	V
Continuous Collector Current	I _C	50	mA
Power Dissipation	P _D	225	mW

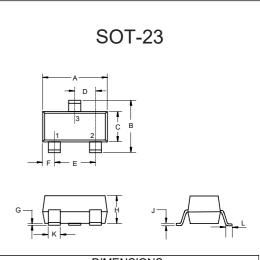
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Marking: 3EM

Internal Structure

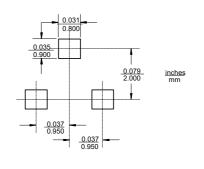


NPN VHF/UHF Transistors



	DIMENSIONS				
DIM INCH		HES		М	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



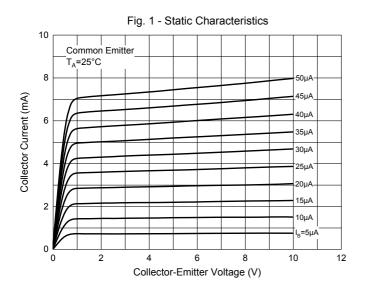


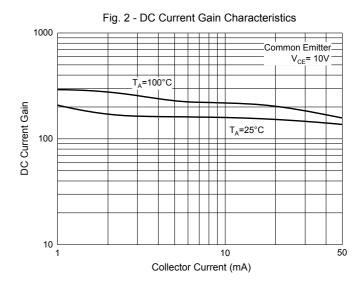
Electrical Characteristics @ $T_A=25^{\circ}C$ Unless Otherwise Specified

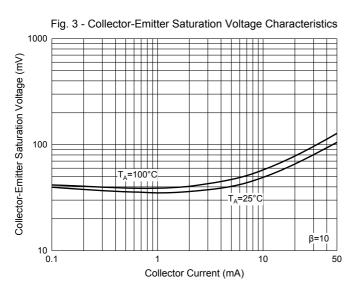
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	30			V	I _C =100μA, I _E =0
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	25			V	I _C =1mA, I _B =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	3			V	I _E =10μA, I _C =0
Collector Cutoff Current	I _{CBO}			0.1	μA	V _{CB} =25V, I _E =0
Emitter Cutoff Current	I _{EBO}			0.1	μA	$V_{EB}=2V$, $I_C=0$
DC Current Gain	h _{FE}	60				V _{CE} =10V, I _C =4mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			0.5	V	I _C =4mA, I _B =0.4mA
Base-Emitter Saturation Voltage	V _{BE(sat)}			0.95	V	I _C =4mA, V _{CE} =10V
Transition Frequency	f _T	650			MHz	V _{CE} =10V, I _C =4mA, f=100MHz
Collector-Base Capacitance	C _{CB}			0.7	pF	V _{CB} =10V, I _E =0,f=1MHz
Collector-Base Feedback Capacitance	C _{RB}			0.65	pF	V _{CB} =10V, I _E =0,f=1MHz

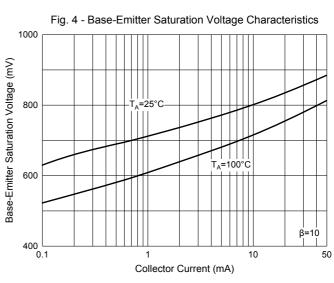


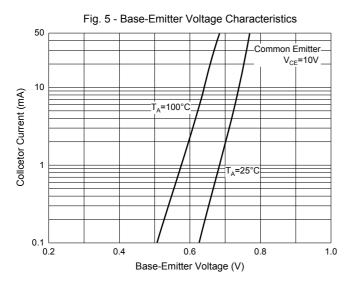
Curve Characteristics

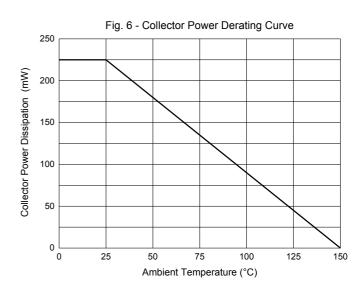














Ordering Information

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

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