

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- 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)

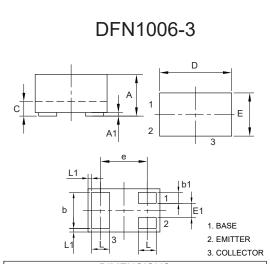
Maximum Ratings @ 25°C Unless Otherwise Specified

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	60	V
Collector-Emitter Voltage	V _{CEO}	40	V
Emitter-Base Voltage	V _{EBO}	6	V
Collector Current	I _C	200	mA
Collector Power Dissipation	P _C	150	mW

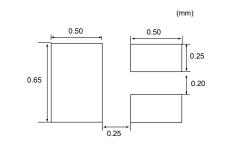
Marking: 1AM

NPN General Purpose Amplifier



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOIL
Α	0.018	0.022	0.45	0.55	
A1	0.000	0.002	0.00	0.05	
b	0.018	0.022	0.45	0.55	
b1	0.004	0.008	0.10	0.20	
С	0.005	0.007	0.12	0.18	
D	0.037	0.042	0.95	1.075	
E	0.022	0.026	0.55	0.675	
E1	0.006	0.010	0.15	0.25	
е	0.0)26	0.65		TYP.
L	0.008	0.012	0.20	0.30	
L1	0.0	002	0.	05	TYP.

Suggested Solder Pad Layout





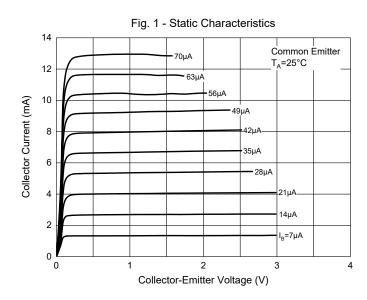
Electrical Characteristics @ 25°C Unless Otherwise Specified

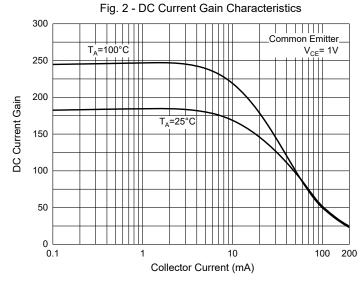
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	60			V	$I_{C}=10\mu A, I_{E}=0$
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	40			V	I _C =1mA, I _B =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	6			V	$I_E=10\mu A, I_C=0$
Collector-Base Cutoff Current	I _{CBO}			50	nA	V_{CB} =30V, I_E =0
Emitter-Base Cutoff Current	I _{EBO}			50	nA	V_{EB} =5V, I_C =0
DC Current Gain ^(Note1)	h _{FE(1)}	40				V _{CE} =1V, I _C =0.1mA
	h _{FE(2)}	70				V _{CE} =1V, I _C =1mA
	h _{FE(3)}	100		300		V _{CE} =1V, I _C =10mA
	h _{FE(4)}	60				V _{CE} =1V, I _C =50mA
	h _{FE(5)}	30				V _{CE} =1V, I _C =100mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			0.2	V	I _C =10mA, I _B =1mA
				0.3	V	I _C =50mA, I _B =5mA
Base-Emitter Saturation Voltage	V _{BE(sat)}	0.65		0.85	V	I _C =10mA, I _B =1mA
				0.95	V	I _C =50mA, I _B =5mA
Transition Frequency	f _T	300			MHz	V _{CE} =20V, I _C =10mA, f=100MHz
Output Capacitance	C _{ob}			4	pF	V _{CB} =5V, I _E =0, f=1MHz,
Noise Figure	NF		5	5 dB	V _{CE} =5V, I _C =100μA	
				5	о ць	R_S =1K Ω , f=1MHz
Delay Time	t _d			35	ns	V_{CC} =3V, V_{BE} =0.5V
Rise Time	t _r			35	ns	I _C =10mA, I _{B1} =1mA
Storage Time	t _s			200	ns	V _{CC} =3V, I _C =10mA
Fall Time	t _f			50	ns	$I_{B1}=I_{B2}=1mA$

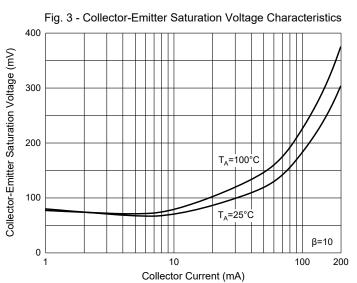
Note: 1.Pulse Width ≤ 300µs, Duty Cycle≤2.0%

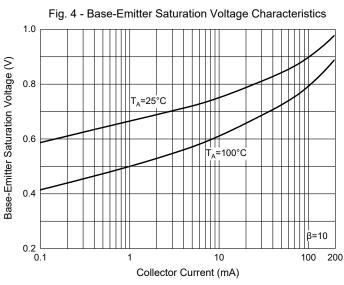


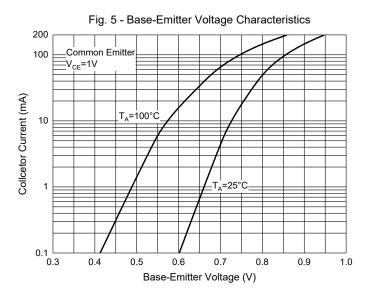
Curve Characteristics

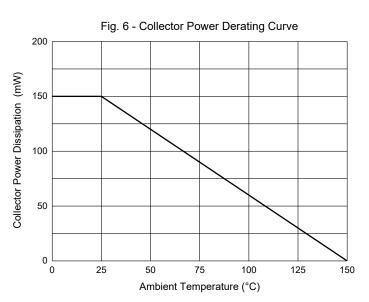














Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 10Kpcs/Reel

Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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