

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)

Maximum Ratings @ 25°C Unless Otherwise Specified

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	-100	V
Collector-Emitter Voltage	V_{CEO}	-80	V
Emitter-Base Voltage	V_{EBO}	-6	V
Continuous Collector Current	I_C	-8	A
Power Dissipation @ $T_A=25^\circ\text{C}$	P_D	1.25	W

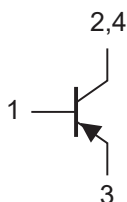
Thermal characteristics

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	$R_{th(J-A)}$	100	°C/W

Note:

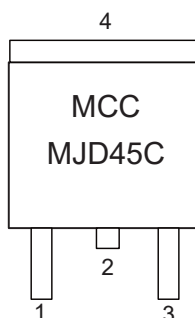
1.Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure



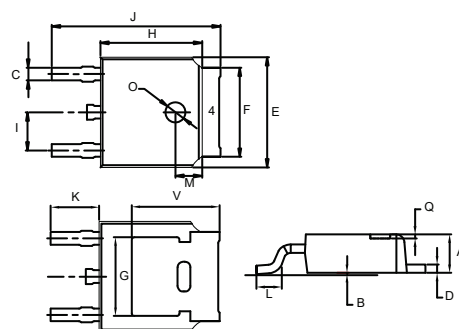
1.BASE
2,4.COLLECTOR
3.EMITTER

Marking Code



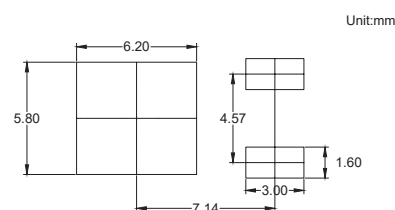
PNP Power Transistors

DPAK(TO-252)



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.087	0.094	2.20	2.40	
B	0.000	0.005	0.00	0.13	
C	0.026	0.034	0.66	0.86	
D	0.018	0.023	0.46	0.58	
E	0.256	0.264	6.50	6.70	
F	0.201	0.215	5.10	5.46	
G	0.190		4.83		TYP.
H	0.236	0.244	6.00	6.20	
I	0.086	0.094	2.18	2.39	
J	0.386	0.409	9.80	10.40	
K	0.114		2.90		TYP.
L	0.055	0.067	1.40	1.70	
M	0.063		1.60		TYP.
O	0.043	0.051	1.10	1.30	
Q	0.000	0.012	0.00	0.30	
V	0.211		5.35		TYP.

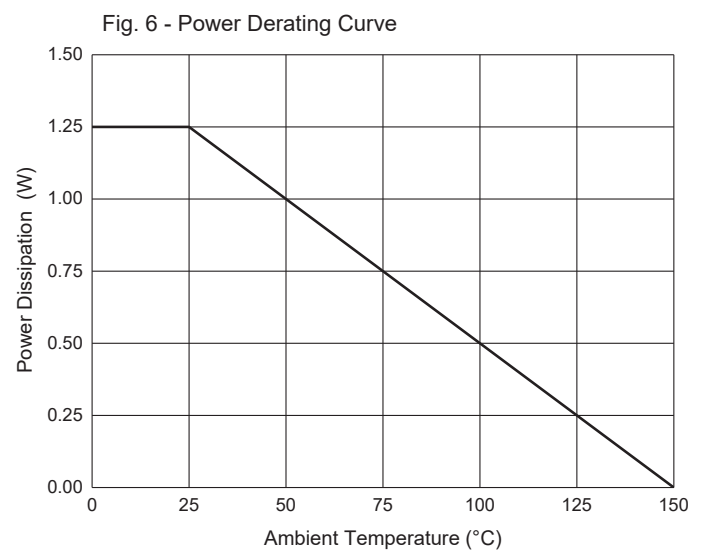
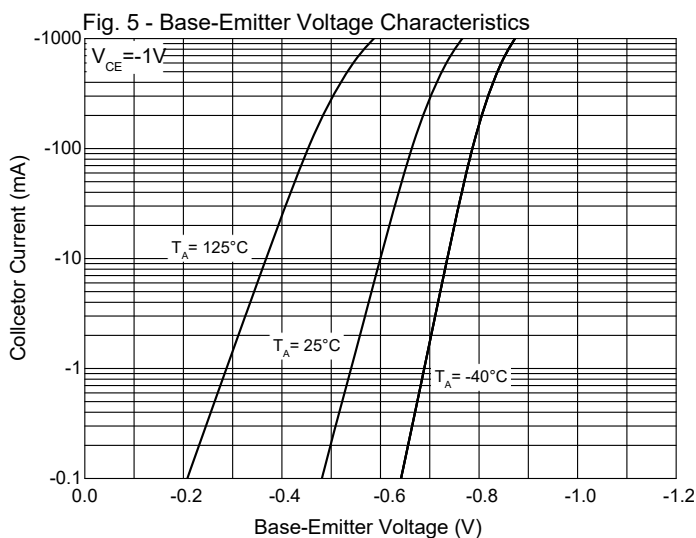
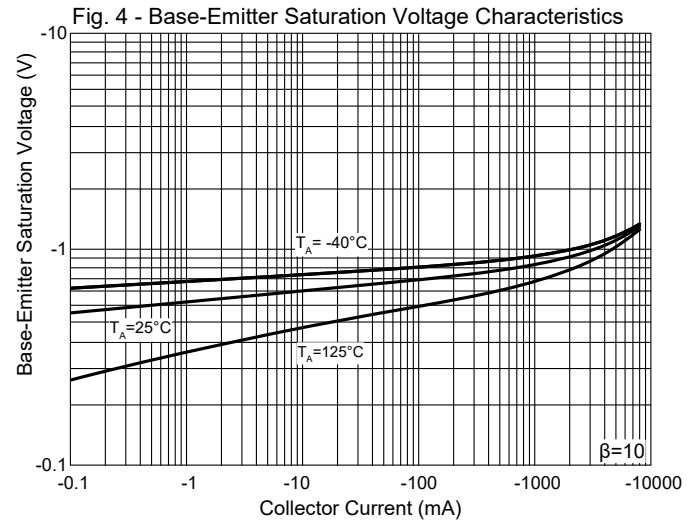
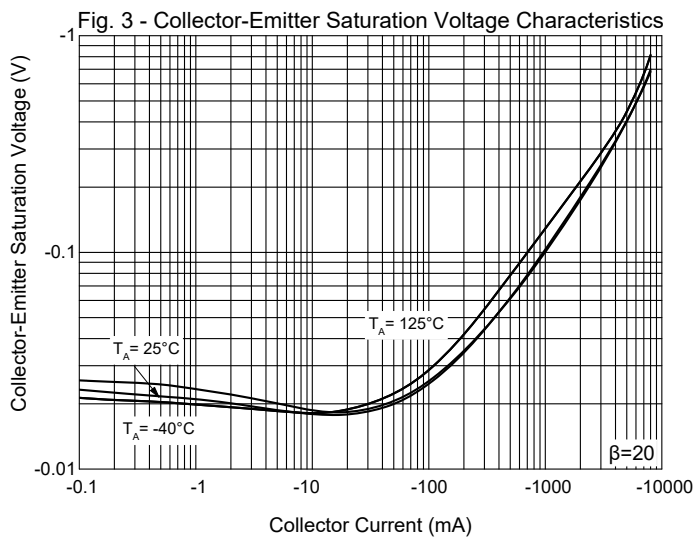
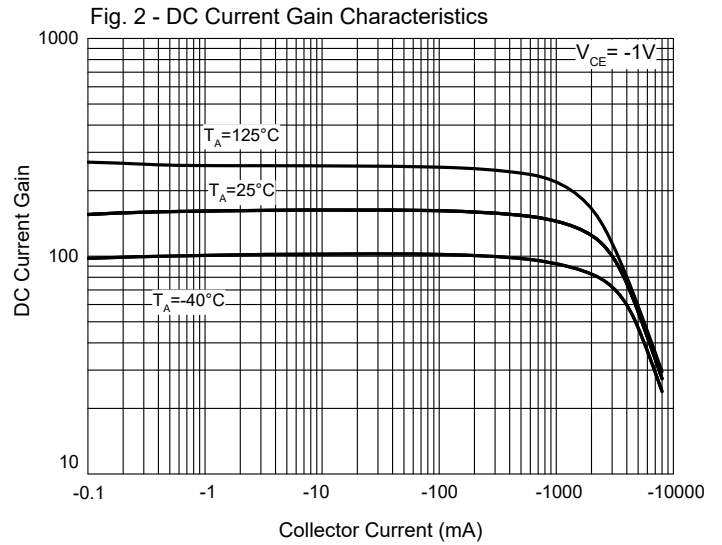
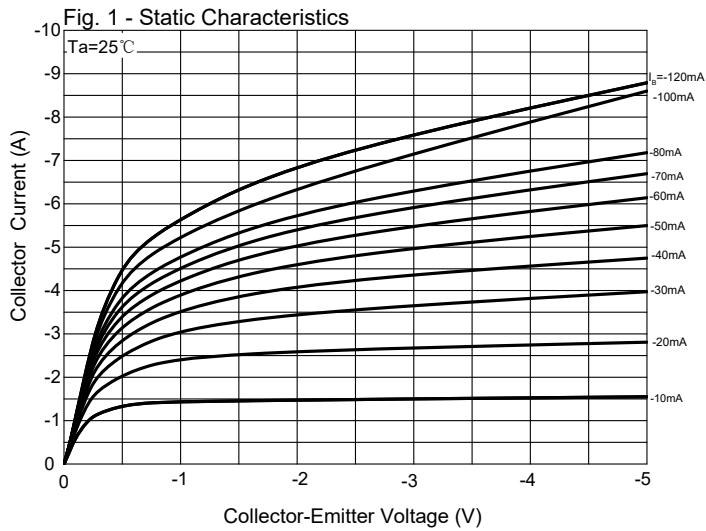
Suggested Solder Pad Layout



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

Parameter	Symbol	Min	Typ	Max	Units	Conditions
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-100			V	$I_C=-0.1\text{mA}$, $I_E=0$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-80			V	$I_C=-1\text{mA}$, $I_B=0$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-6			V	$I_E=-0.1\text{mA}$, $I_C=0$
Collector-base Cutoff Current	I_{CBO}			-1	μA	$V_{CB}=-100\text{V}$, $I_C=0$
Collector Cutoff Current	I_{CES}			-1	μA	$V_{CE}=-64\text{V}$, $I_{EB}=0$
Emitter-base Cutoff Current	I_{EBO}			-1	μA	$V_{EB}=-5\text{V}$, $I_C=0$
DC Current Gain	$h_{FE(1)}$	60				$V_{CE}=-1\text{V}$, $I_C=-2\text{A}$
	$h_{FE(2)}$	40				$V_{CE}=-1\text{V}$, $I_C=-4\text{A}$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$			-1	V	$I_C=-8\text{A}$, $I_B=-0.4\text{A}$
Base-Emitter Saturation Voltage	$V_{BE(sat)}$			-1.5	V	$I_C=-8\text{A}$, $I_B=-0.8\text{A}$
Output Capacitance	C_{ob}			112	pF	$V_{CB}=-10\text{V}$, $I_E=0$, $f=1\text{MHz}$

Curve Characteristics



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel

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