

Features

- Moisture Sensitivity Level 1
- Halogen Free."Green"Device(Note 1)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Dual NPN Transistor

Maximum Ratings @ 25°C Unless Otherwise Specified

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	50	V
Collector-Emitter Voltage	V _{CEO}	45	V
Emitter-Base Voltage	V _{EBO}	5	V
Collector Current	Ic	500	mA
Power Dissipation	P _D	300	mW

Thermal characteristics

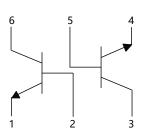
Parameter	Symbol	Rating	Unit
Operating Junction Temperature Range	T _{OPR}	-55~+150	°C
Storage Temperature Range	T _{STR}	-55~+150	°C
Thermal Resistance from Junction to Ambient	Rth _(j-a)	417	°C/W

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

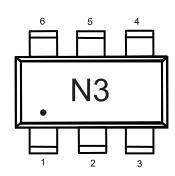
SOT23-6L

DIMENSIONS					
DIM	INCHES		M	M	NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.012	0.020	0.30	0.50	
В	0.051	0.070	1.30	1.80	
С	0.087	0.126	2.20	3.20	
D	0.037		0.9	95	TYP.
G	0.074		1.9	00	TYP.
Н	0.106	0.122	2.70	3.10	
J	0.002	0.006	0.05	0.15	
K	0.030	0.051	0.75	1.30	
L	0.012	0.024	0.30	0.60	
М	0.003	0.008	0.08	0.22	

Internal Structure



Device Marking



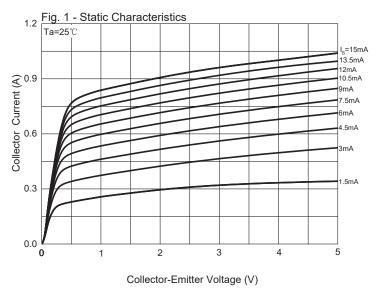


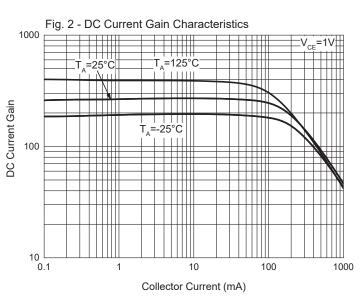
Electrical Characteristics @ 25°C Unless Otherwise Specified

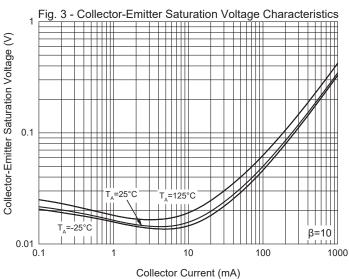
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	50			V	$I_{C}=50\mu A, I_{E}=0$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	45			V	I _C =1mA, I _B =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	5			V	$I_{E}=50\mu A, I_{C}=0$
Collector-Base Cutoff Current	I _{CBO}			100	nA	V_{CB} =20V, I_E =0
Emitter-Base Cutoff Current	I _{EBO}			100	nA	V_{EB} =5V, I_C =0
DC Current Gain	h _{FE(1)}	160		400		V _{CE} =1V, I _C =100mA
Do Guirent Gain	h _{FE(2)}	40				V _{CE} =1V, I _C =500mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			0.7	V	I _C =500mA, I _B =50mA
Base-Emitter Voltage	V _{BE}			1.2	V	I _C =500mA, V _{CE} =1V
Transition Frequency	f_T	100			MHz	V_{CE} =5V, I_{C} =10mA, f=30MHz

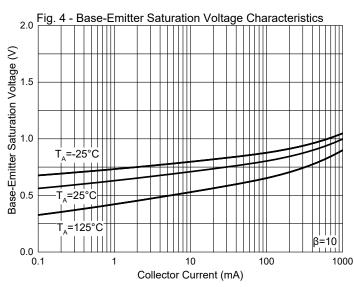


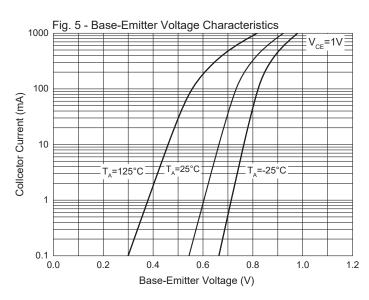
Curve Characteristics

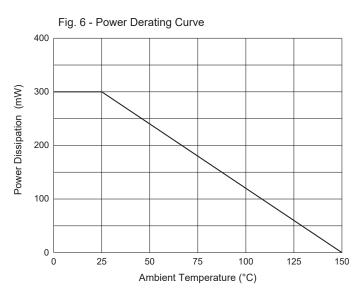














Ordering Information

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

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