

### Features

- Epitaxial Planar Die Construction
- Ideal for Low Power Amplification and Switching
- 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

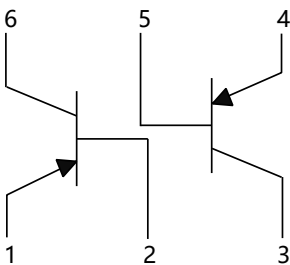
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 625°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	$V_{CBO}$	-40	V
Collector-Emitter Voltage	$V_{CEO}$	-40	V
Emitter-Base Voltage	$V_{EBO}$	-5	V
Continuous Collector Current	$I_C$	-600	mA
Power Dissipation	$P_D$	200	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.

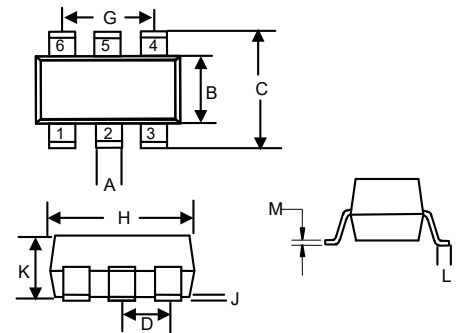
### Marking: K2T

### Internal Structure



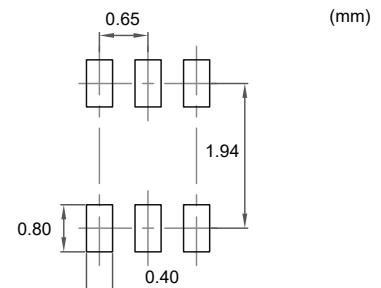
## Dual PNP Plastic-Encapsulate Transistors

### SOT-363



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.006	0.014	0.15	0.35	
B	0.045	0.053	1.15	1.35	
C	0.079	0.096	2.00	2.45	
D		0.026		0.65	TYP.
G	0.047	0.055	1.20	1.40	
H	0.071	0.087	1.80	2.20	
J	-----	0.004	-----	0.10	
K	0.031	0.043	0.80	1.10	
L	0.010	0.018	0.26	0.46	
M	0.003	0.006	0.08	0.15	

### 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	$V_{(BR)CBO}$	-40			V	$I_C=-100\mu\text{A}, I_E=0$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-40			V	$I_C=-1\text{mA}, I_B=0$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5			V	$I_E=-100\mu\text{A}, I_C=0$
Collector Cutoff Current	$I_{CBO}$			-0.1	$\mu\text{A}$	$V_{CB}=-50\text{V}, I_E=0$
Emitter Cutoff Current	$I_{EBO}$			-0.1	$\mu\text{A}$	$V_{EB}=-5\text{V}, I_C=0$
DC Current Gain	$h_{FE(1)}$	30				$V_{CE}=-1\text{V}, I_C=-0.1\text{mA}$
	$h_{FE(2)}$	60				$V_{CE}=-1\text{V}, I_C=-1\text{mA}$
	$h_{FE(3)}$	100				$V_{CE}=-1\text{V}, I_C=-10\text{mA}$
	$h_{FE(4)}$	100		300		$V_{CE}=-2\text{V}, I_C=-150\text{mA}$
	$h_{FE(5)}$	20				$V_{CE}=-2\text{V}, I_C=-500\text{mA}$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$			-0.4	V	$I_C=-150\text{mA}, I_B=-15\text{mA}$
				-0.75	V	$I_C=-500\text{mA}, I_B=-50\text{mA}$
Base-Emitter Saturation Voltage	$V_{BE(sat)}$		-0.75	-0.95	V	$I_C=-150\text{mA}, I_B=-15\text{mA}$
				-1.3	V	$I_C=-500\text{mA}, I_B=-50\text{mA}$
Transition Frequency	$f_T$	200			MHz	$V_{CE}=-10\text{V}, I_C=-20\text{mA}, f=100\text{MHz}$
Delay Time	$t_d$			15	ns	$V_{CC}=-30\text{V}, V_{BE}=-2\text{V}, I_C=-150\text{mA}, I_{B1}=-15\text{mA}$
Rise Time	$t_r$			20	ns	
Storage Time	$t_s$			225	ns	$V_{CC}=-30\text{V}, I_C=-150\text{mA}, I_{B1}=-I_{B2}=-15\text{mA}$
Fall Time	$t_f$			30	ns	
Output Capacitance	$C_{ob}$			8.5	pF	$V_{CB}=-10\text{V}, I_E=0, f=1\text{MHz}$

**Curve Characteristics**

Fig. 1 - Static Characteristics

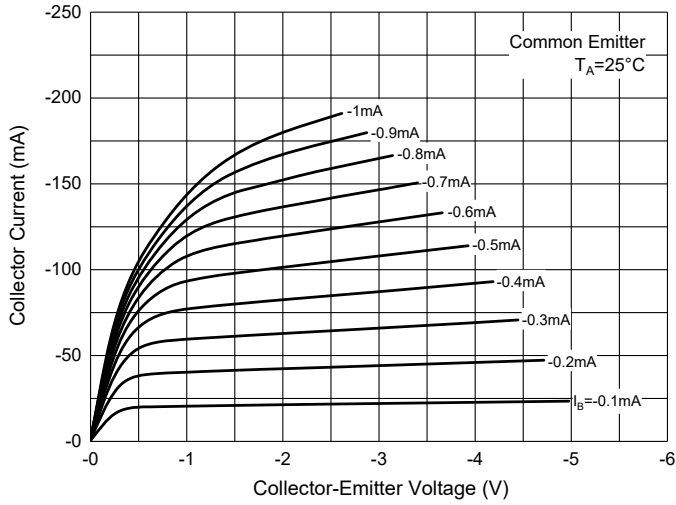


Fig. 2 - DC Current Gain Characteristics

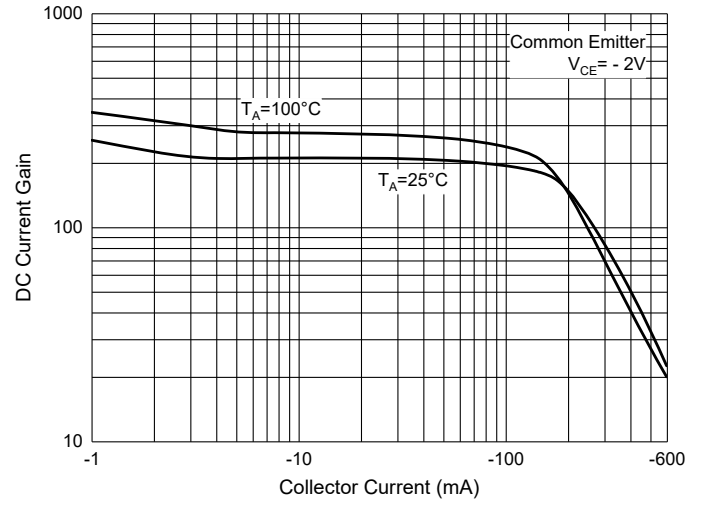


Fig. 3 - Collector-Emitter Saturation Voltage Characteristics

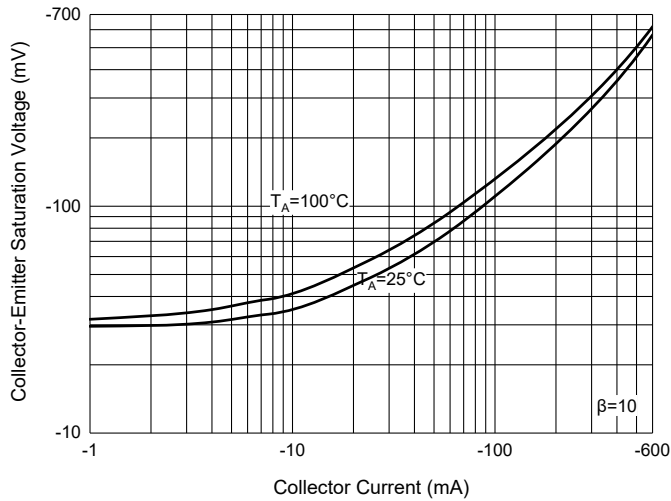


Fig. 4 - Base-Emitter Saturation Voltage Characteristics

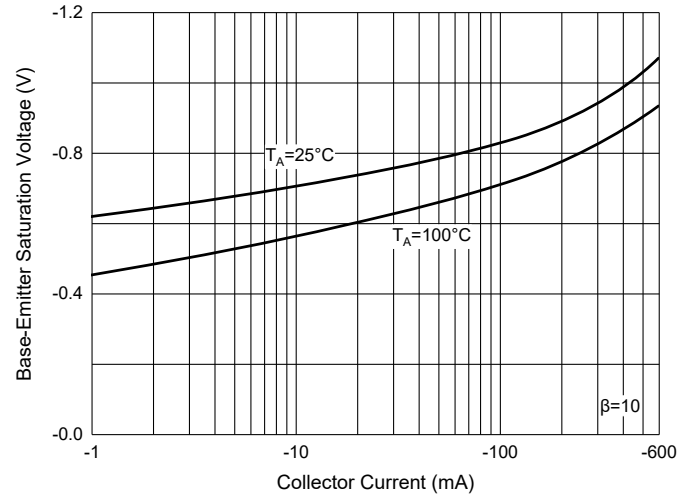


Fig. 5 - Base-Emitter Voltage Characteristics

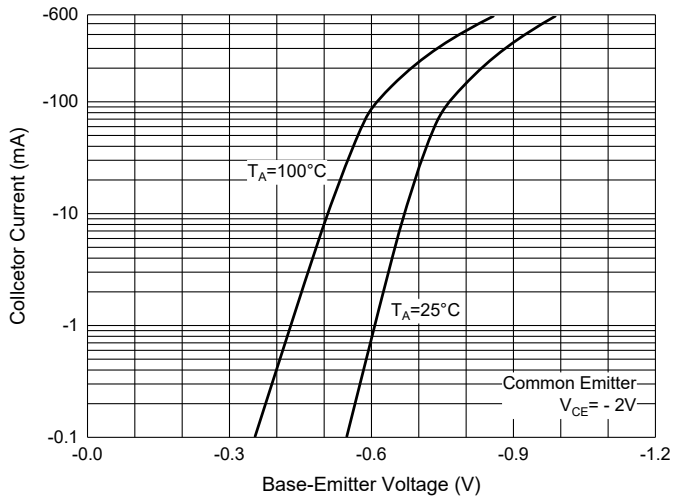
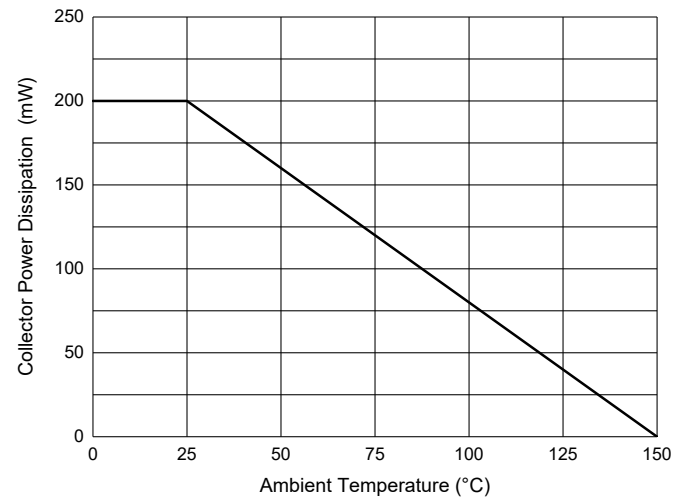


Fig. 6 - Collector Power Derating Curve



## Ordering Information

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

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