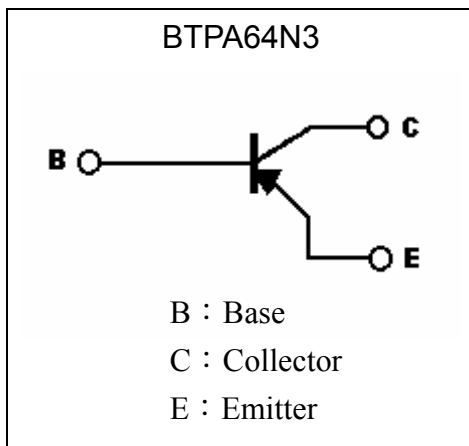
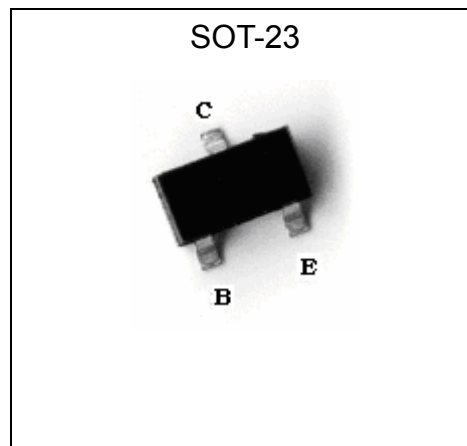


**General Purpose PNP Epitaxial Planar Transistor**

# BTPA64N3

**Description**

- The BTPA64N3 is a darlington amplifier transistor
- Complementary to BTNA14N3.

**Symbol**

**Outline**

**Absolute Maximum Ratings** (Ta=25°C)

Parameter	Symbol	Limits	Unit
Collector-Base Voltage	V <sub>CB0</sub>	-30	V
Collector-Emitter Voltage	V <sub>CES</sub>	-30	V
Emitter-Base Voltage	V <sub>EBO</sub>	-10	V
Collector Current	I <sub>c</sub>	-0.5	A
Power Dissipation	P <sub>d</sub>	225	mW
Junction Temperature	T <sub>j</sub>	150	°C
Storage Temperature	T <sub>stg</sub>	-55~+150	°C

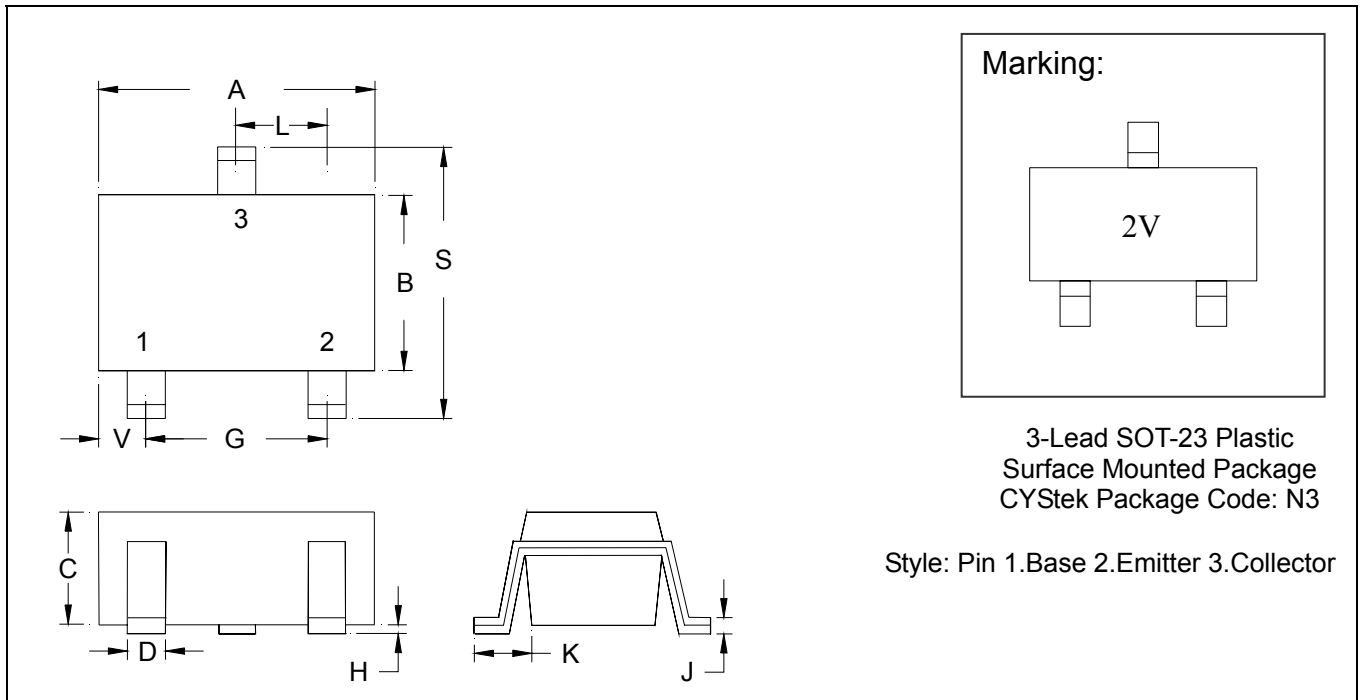


**Characteristics (Ta=25°C)**

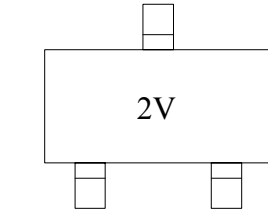
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
$BV_{CES}$	-30	-	-	V	$I_C=-100\mu A$
$I_{CBO}$	-	-	-100	nA	$V_{CE}=-30V$
$I_{EBO}$	-	-	-100	nA	$V_{EB}=10V$
$*V_{CE(sat)}$	-	-	-1.5	V	$I_C=-100mA, I_B=-0.1mA$
$*V_{BE(on)}$	-	-	-2.0	V	$V_{CE}=-5V, I_C=-100mA$
$*h_{FE1}$	10K	-	-	-	$V_{CE}=-5V, I_C=-10mA$
$*h_{FE2}$	20K	-	-	-	$V_{CE}=-5V, I_C=-100mA$
$f_T$	125	-	-	MHz	$V_{CE}=-5V, I_C=-100mA, f=100MHz$

\*Pulse Test: Pulse Width  $\leq 380\mu s$ , Duty Cycle  $\leq 2\%$

**SOT-23 Dimension**



Marking:



3-Lead SOT-23 Plastic  
 Surface Mounted Package  
 CYStek Package Code: N3

Style: Pin 1.Base 2.Emitter 3.Collector

\*: Typical

DIM	Inches		Millimeters		DIM	Inches		Millimeters	
	Min.	Max.	Min.	Max.		Min.	Max.	Min.	Max.
A	0.1102	0.1204	2.80	3.04	J	0.0034	0.0070	0.085	0.177
B	0.0472	0.0630	1.20	1.60	K	0.0128	0.0266	0.32	0.67
C	0.0335	0.0512	0.89	1.30	L	0.0335	0.0453	0.85	1.15
D	0.0118	0.0197	0.30	0.50	S	0.0830	0.1083	2.10	2.75
G	0.0669	0.0910	1.70	2.30	V	0.0098	0.0256	0.25	0.65
H	0.0005	0.0040	0.013	0.10					

Notes: 1.Controlling dimension: millimeters.  
 2.Maximum lead thickness includes lead finish thickness, and minimum lead thickness is the minimum thickness of base material.  
 3.If there is any question with packing specification or packing method, please contact your local CYStek sales office.

**Material:**

- Lead: 42 Alloy ; solder plating
- Mold Compound: Epoxy resin family, flammability solid burning class: UL94V-0

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