

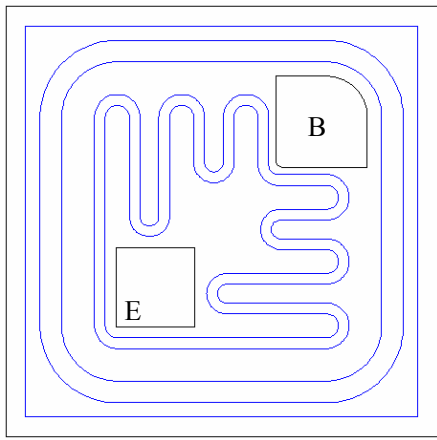
## A42 Silicon NPN Epitaxial Transistor

Description: The A42 is designed for application as a video output to drive color CRT,  
or as a dialer circuit in electronics telephone

Features: ●High voltage:  $V_{CEO}=300V$

●Complementary to A92

### Chip Appearance

	Chip Size		600um × 600um
	Chip Thickness		210 ± 20um
	Bonding Pad Size	Base	127um × 127um
		Emitter	110um × 110um
	Front Metal		Al
	Backside Metal		Au (As)
	Scribe line width		55um
	Wafer Size		6 inch

### Electrical Characteristics( Ta=25°C )

Characteristic	Symbol	Test Condition	Min	Max	Unit
Collector Cutoff Current	$I_{CBO}$	$V_{CB}=200V, I_E=0$		0.25	uA
Emitter Cutoff Current	$I_{EBO}$	$V_{EB}=5V, I_C=0$		0.1	uA
Collector-Base Breakdown Voltage	$BV_{CBO}$	$I_C=0.1mA$	300		V
Collector-Emitter Breakdown Voltage	$BV_{CEO}$	$I_C=1mA$	300		V
Emitter-Base Breakdown Voltage	$BV_{EBO}$	$I_E=0.1mA$	5		V
DC Current Gain	$h_{FE}$	$V_{CE}=10V, I_C=10mA$	60	300	
Collector Saturation Voltage	$V_{CE(sat)}$	$I_C=20mA, I_B=2mA$		0.5	V