

# Chroma Amplifier Transistor (300V, 0.1A)

## 2SC4061K / 2SC3415S / 2SC4015 / 2SC3271F

### ●Features

- 1) High breakdown voltage. ( $BV_{CEO}=300V$ )
- 2) Low collector output capacitance.  
(Typ. 3pF at  $V_{CB}=30V$ )
- 3) Ideal for chroma circuit.

### ●Absolute maximum ratings ( $T_a=25^{\circ}C$ )

Parameter	Symbol	Limits	Unit
Collector-base voltage	$V_{CBO}$	300	V
Collector-emitter voltage	$V_{CEO}$	300	V
Emitter-base voltage	$V_{EBO}$	5	V
Collector current	$I_C$	100	mA
Collector power dissipation	$P_C$	0.2	W
		0.3	
		1	
		1.2	
		5	
Junction temperature	$T_J$	150	$^{\circ}C$
Storage temperature	$T_{stg}$	-55~+150	$^{\circ}C$

\* Printed circuit board 1.7mm thick, collector plating 1cm<sup>2</sup> or larger.

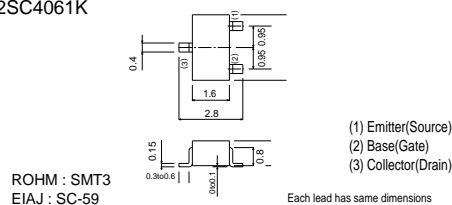
### ●Packaging specifications and hFE

Type	2SC4061K	2SC3415S	2SC4015	2SC3271F
Package	SMT3	SPT	ATV	TO-126FP
hFE	NP	NP	N	N
Marking	AN*	-	-	-
Code	T146	TP	TV2	-
Basic ordering unit (pieces)	3000	5000	2500	1000

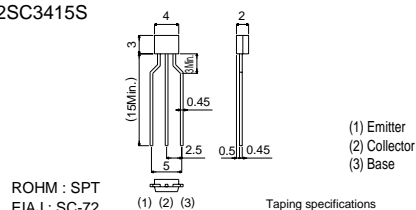
\* Denotes hFE

### ●External dimensions (Units: mm)

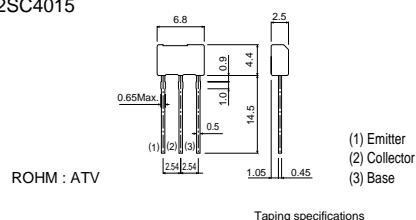
#### 2SC4061K



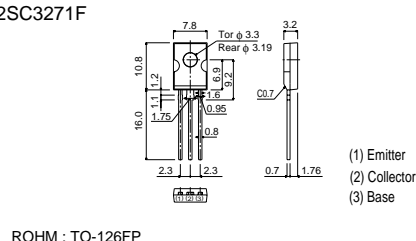
#### 2SC3415S



#### 2SC4015



#### 2SC3271F



### ●Electrical characteristics ( $T_a=25^{\circ}C$ )

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage	$BV_{CBO}$	300	-	-	V	$I_C=50\mu A$
Collector-emitter breakdown voltage	$BV_{CEO}$	300	-	-	V	$I_C=100\mu A$
Emitter-base breakdown voltage	$BV_{EBO}$	5	-	-	V	$I_E=50\mu A$
Collector cutoff current	$I_{CBO}$	-	-	0.5	$\mu A$	$V_{CB}=200V$
Emitter cutoff current	$I_{EBO}$	-	-	0.5	$\mu A$	$V_{EB}=4V$
Collector-emitter saturation voltage	$V_{CE(sat)}$	-	-	2	V	$I_C/I_E=50mA/5mA$
DC current	hFE	56	-	180	-	$V_{CE}/I_C=10V/10mA$
transfer ratio		56	-	120	-	
Gain bandwidth product	f <sub>T</sub>	50	100	-	MHz	$V_{CE}=30V, I_E=10mA, f=100MHz$
Collector output capacitance	C <sub>ob</sub>	-	3	-	pF	$V_{CB}=30V, I_E=0A, f=1MHz$