

Chroma amplifier transistor (300V, 0.1A)

2SC4061K / 2SC3415S / 2SC4015

●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	2SC4061K	0.2	W
	2SC3415S	0.3	
	2SC4015	1 *	
Junction temperature	T_j	150	$^{\circ}C$
Storage temperature	T_{stg}	$-55 \sim +150$	$^{\circ}C$

* Printed circuit board 1.7mm thick, collector plating 1cm² or larger.

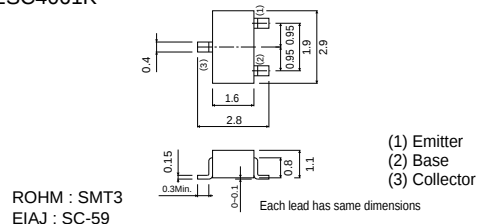
●Packaging specifications and hFE

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

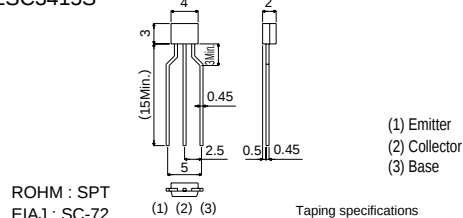
* Denotes hFE

●External dimensions (Units : mm)

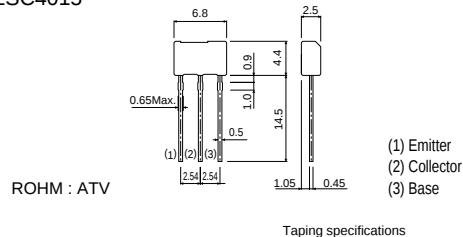
2SC4061K



2SC3415S



2SC4015



●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	μA	$V_{CB}=200V$
Emitter cutoff current	I_{EBO}	—	—	0.5	μA	$V_{EB}=4V$
Collector-emitter saturation voltage	$V_{CE(sat)}$	—	—	2	V	$I_C/I_E=50mA/5mA$
DC current transfer ratio	h_{FE}	56	—	180	—	$V_{CE}/I_C=10V/10mA$
		56	—	120	—	
Gain bandwidth product	f_T	50	100	—	MHz	$V_{CE}=30V, I_E=-10mA, f=100MHz$
Collector output capacitance	C_{ob}	—	3	—	pF	$V_{CB}=30V, I_E=0A, f=1MHz$