

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→+150	$^\circ C$

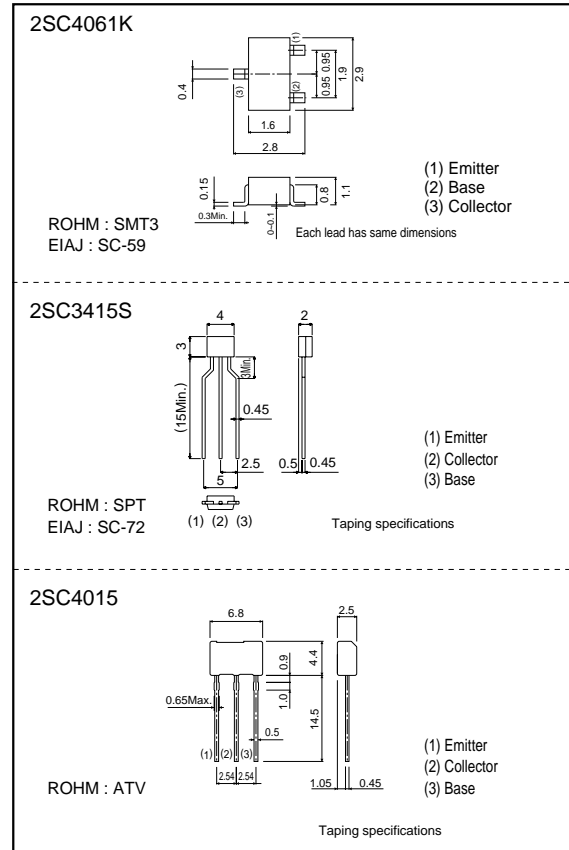
* Printed circuit board 1.7mm thick, collector plating 1cm² or larger.

●Packaging specifications and h_{FE}

Type	2SC4061K	2SC3415S	2SC4015
Package	SMT3	SPT	ATV
h_{FE}	NP	NP	N
Marking	AN*	-	-
Code	T146	TP	TV2
Basic ordering unit (pieces)	3000	5000	2500

* Denotes h_{FE}

●External dimensions (Units : mm)



●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}	2SC4061K, 2SC3415S	56	-	180	-	$V_{CE}/I_C=10V/10mA$
		2SC4015	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	$V_{CB}=30V, I_E=0A, f=1MHz$	