



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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.

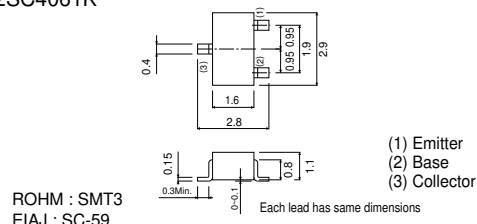
●Packaging specifications and hFE

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

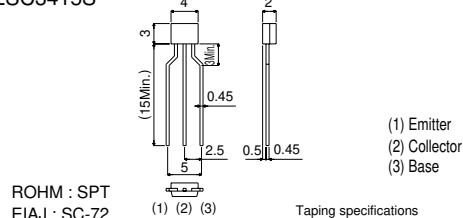
* Denotes hFE

●External dimensions (Units : mm)

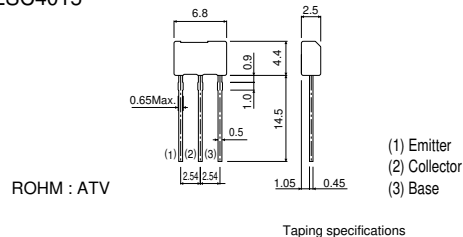
2SC4061K



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	—	$V_{CE}/I_C=10V/10mA$
Gain bandwidth product	f_T	50	100	—	MHz	$V_{CE}=30V, I_E=-10mA, f=100MHz$
Collector output capacitance	C_{ob}	—	3	—	pF	$V_{CB}=30V, I_E=0A, f=1MHz$