















**ESD** 

TVS

MOS

LDO

Diode

Sensor

DC-DC

## **Product Specification**

Domestic Part Number	EV2SC3265-X-S1
Overseas Part Number	2SC3265
▶ Equivalent Part Number	2SC3265

"S1" means SOT-23





#### ■ NPN Transistors

# 1.Base 2.Emitter 3.Collector

■ Simplified outline(SOT-23)

- Features
- High DC current gain
- Low saturation voltage
- Complementary to 2SA1298

#### ■ Absolute Maximum Ratings Ta = 25 °C

Parameter	Symbol	Rating	Unit		
Collector - Base Voltage	Vсво	30			
Collector - Emitter Voltage	VCEO	25	V		
Emitter - Base Voltage	Vево	5			
Collector Current - Continuous	Ic	800	mA		
Base Current	lв	IIIA			
Collector Power Dissipation	Pc	200	mW		
Junction Temperature	TJ	150	°C		
Storage Temperature Range	Tstg	-55 to 150			

#### ■ Electrical Characteristics Ta = 25°C

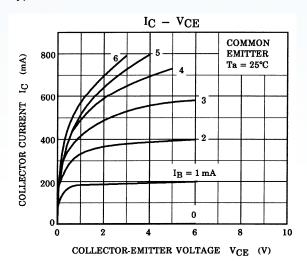
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage		Ic= 100 μA, IE= 0	30			
Collector- emitter breakdown voltage		Ic= 10 mA, I <sub>B</sub> = 0	25			V
Emitter - base breakdown voltage	Vево	IE= 100 μ A, IC= 0	5			
Collector-base cut-off current		Vcb= 30 V , IE= 0			0.1	
Emitter cut-off current	ІЕВО	V <sub>EB</sub> = 5V , I <sub>C</sub> =0			0.1	uA
Collector-emitter saturation voltage	VCE(sat)	Ic= 500 mA, IB=20 mA			0.4	
Base - emitter saturation voltage	VBE(sat)	Ic= 500 mA, IB=20 mA		0.72	1	V
Base - emitter voltage	VBE	VCE= 1V, IC= 10mA	0.5		8.0	
DC current gain	hFE	VcE= 1V, Ic= 100mA	100		320	
DC current gain	TIFE	VcE= 1V, Ic= 800mA	40			
Collector output capacitance	Cob	V <sub>CB</sub> = 10V, I <sub>E</sub> =0, f=1MHz		13		pF
Transition frequency	fτ	VCE= 5V, IC= 10mA		120		MHz

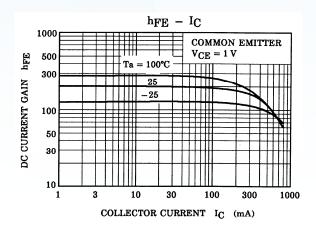
#### ■ Classification of hfe(1)

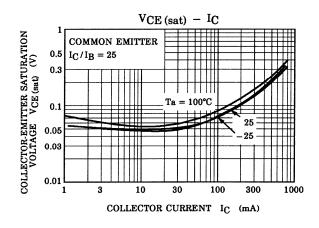
Type	2SC3265-O	2SC3265-Y		
Range	100-200	160-320		
Marking	EO	EY		

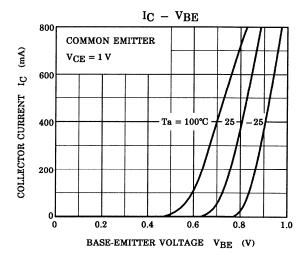


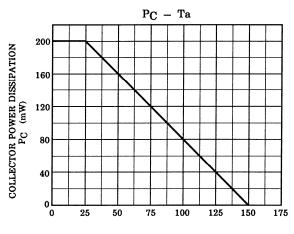
#### ■ Typical Characterisitics







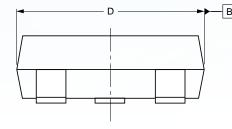


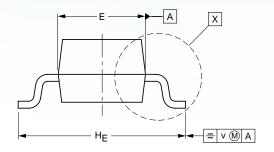


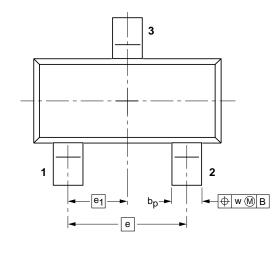
AMBIENT TEMPERATURE Ta (°C)

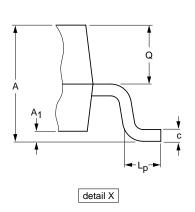


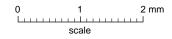
#### ■ SOT-23











#### **DIMENSIONS (mm are the original dimensions)**

UNIT	Α	A <sub>1</sub> max.	bp	С	D	E	е	e <sub>1</sub>	H <sub>E</sub>	L <sub>p</sub>	ď	٧	w
mm	1.1 0.9	0.1	0.48 0.38	0.15 0.09	3.0 2.8	1.4 1.2	1.9	0.95	2.5 2.1	0.45 0.15	0.55 0.45	0.2	0.1



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