



## DESCRIPTION

The A3355 is an NPN silicon Epitaxial Transistor. It has High frequency.

The A3355 is available in SOT-23 and TO-92 packages

## FEATURES

- Collector Current: 200mA (Max)
- High Frequency: 4.5GHz (Typ)
- Collector-Emitter Voltage: 12V
- Low noise and high gain bandwidth product
- High power gain
- Available in SOT-23 and TO-92 Packages

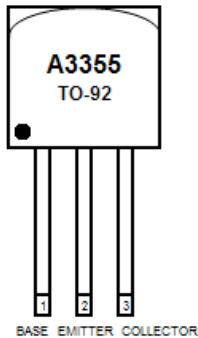
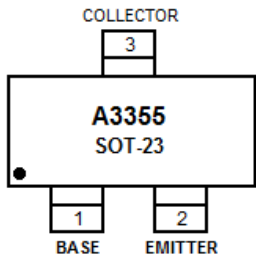
## ORDERING INFORMATION

Package Type	Part Number	
SOT-23	E3	A3355E3R
		A3355E3VR
TO-92	Z	A3355ZY
		A3355ZVY
Note	R: Tape & Reel V: Halogen free Package Y: A : Ammo Package B : Bulk Package	
AiT provides all RoHS products Suffix " V " means Halogen free Package		

## APPLICATION

- VHF
- UHF
- CATV

## PIN DESCRIPTION

 <p>Top View</p>	 <p>Top View</p>
Pin #	Function
1	Base
2	Emitter
3	Collector



## ABSOLUTE MAXIMUM RATING

T=25°C

V <sub>CBO</sub> , Collector-Base Voltage	20V	
V <sub>CEO</sub> , Collector-Emitter Voltage	12V	
V <sub>EBO</sub> , Emitter-Base Voltage	3V	
I <sub>C</sub> , Collector Current	200mA	
P <sub>C</sub> , Collector Power Dissipation	SOT-23	0.6W
	TO-92	0.2W
T <sub>J</sub> , Junction Temperature	150°C	
T <sub>STG</sub> , Storage Temperature	-65°C~ +150°C	

## ELECTRICAL CHARACTERISTICS

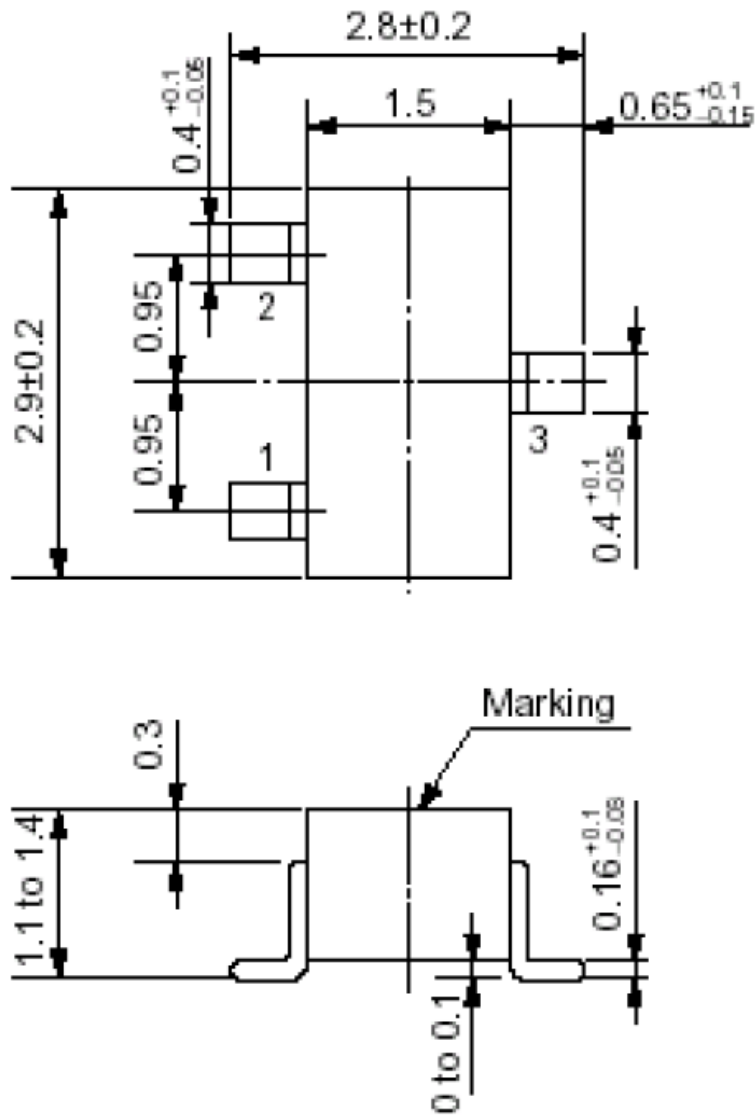
T=25°C

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	BV <sub>CBO</sub>	I <sub>C</sub> =10uA	20			V
Collector-Emitter Breakdown Voltage	BV <sub>CEO</sub>	I <sub>C</sub> =1mA	12			V
Emitter-Base Breakdown Voltage	BV <sub>EBO</sub>	I <sub>E</sub> =10uA	3			V
Collector Cutoff Current	I <sub>CBO</sub>	V <sub>CB</sub> =10V			1	uA
Emitter Cutoff Current	I <sub>EBO</sub>	V <sub>EB</sub> =1V			1	uA
DC Current Transfer Ratio	H <sub>FE</sub>	V <sub>CE</sub> =10V, I <sub>C</sub> =20mA	90	150	220	
RF Characteristics						
Transition Frequency	F <sub>T</sub>	V <sub>CE</sub> =10V, I <sub>C</sub> =20mA		4.5		GHz



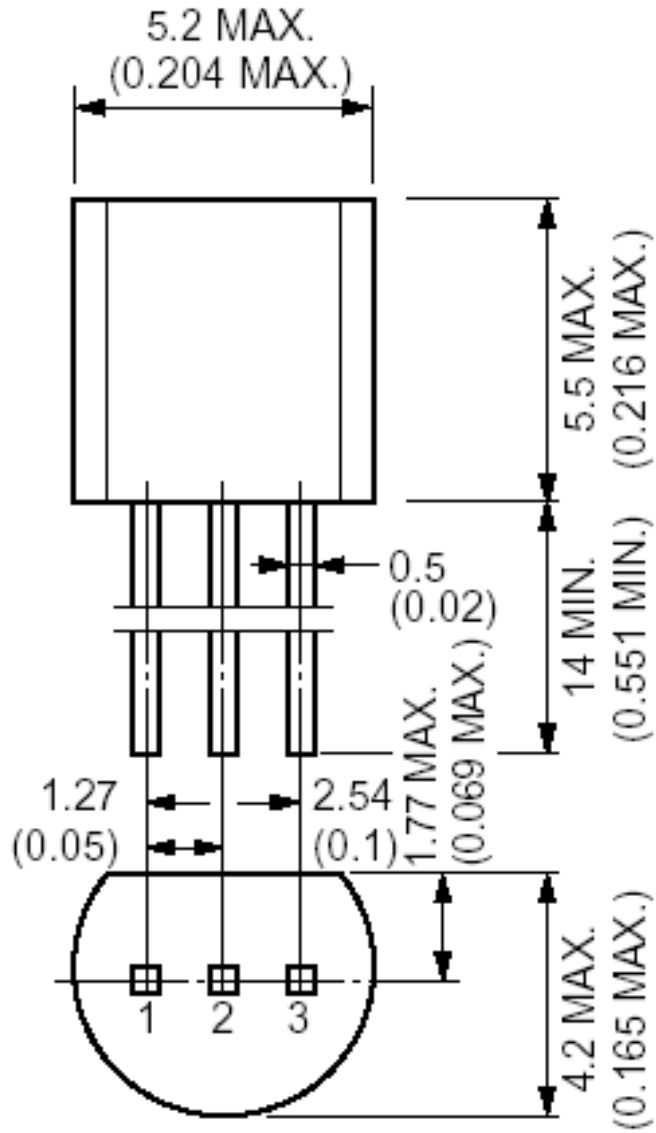
## PACKAGE INFORMATION

Dimension in SOT-23 Package (Unit: mm)





Dimension in TO-92 (Unit: mm)





## IMPORTANT NOTICE

AiT Semiconductor Inc. (AiT) reserves the right to make changes to any its product, specifications, to discontinue any integrated circuit product or service without notice, and advises its customers to obtain the latest version of relevant information to verify, before placing orders, that the information being relied on is current.

AiT Semiconductor Inc.'s integrated circuit products are not designed, intended, authorized, or warranted to be suitable for use in life support applications, devices or systems or other critical applications. Use of AiT products in such applications is understood to be fully at the risk of the customer. As used herein may involve potential risks of death, personal injury, or severe property, or environmental damage. In order to minimize risks associated with the customer's applications, the customer should provide adequate design and operating safeguards.

AiT Semiconductor Inc. assumes to no liability to customer product design or application support. AiT warrants the performance of its products of the specifications applicable at the time of sale.