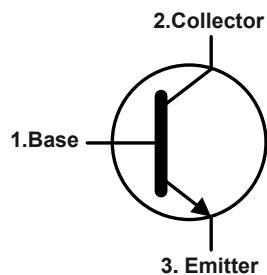


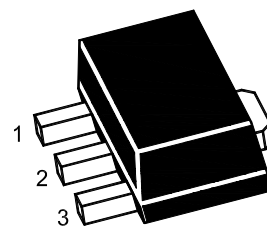
Features

- High voltage
- Excellent hFE characteristics

Equivalent Circuit



SOT-89



1.Base 2.Collector 3. Emitter

Marking Code :

2SC4373SQ-O : CX

2SC4373SQ-Y : CY

Absolute Maximum Ratings

Ratings at 25°C ambient temperature unless otherwise specified.

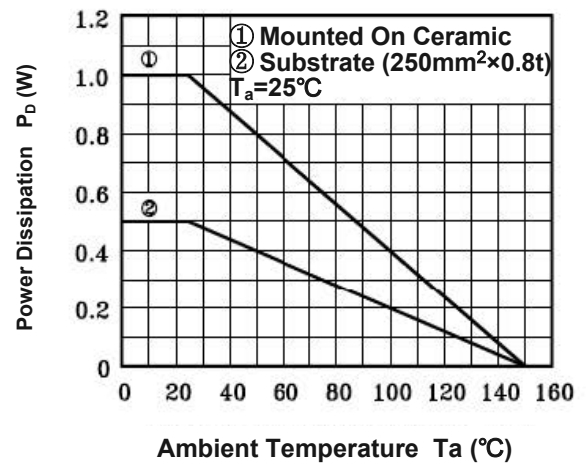
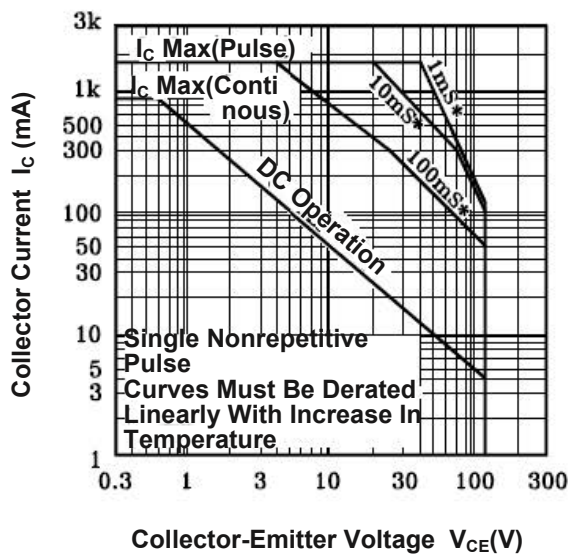
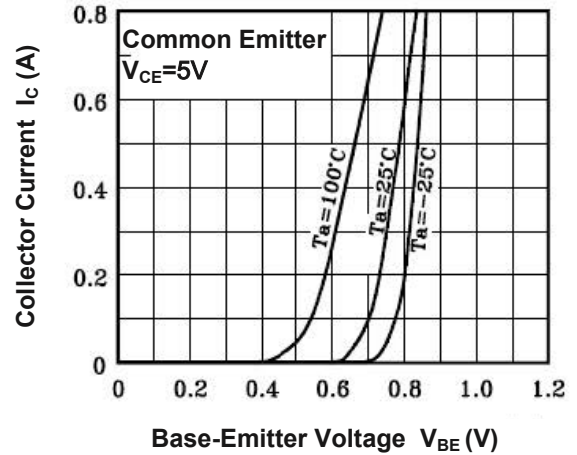
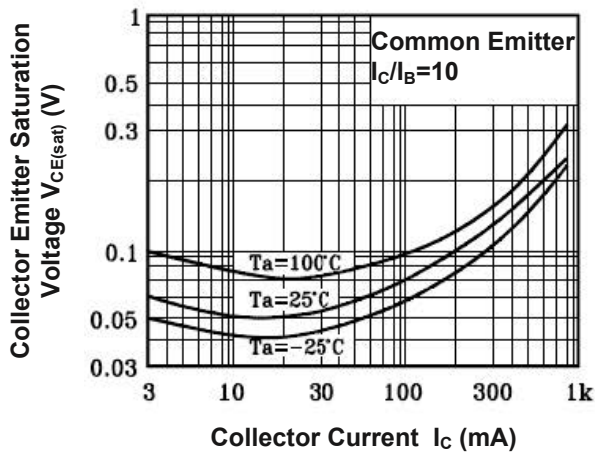
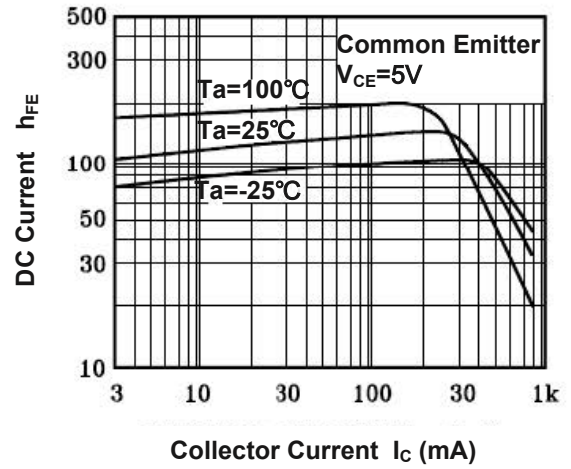
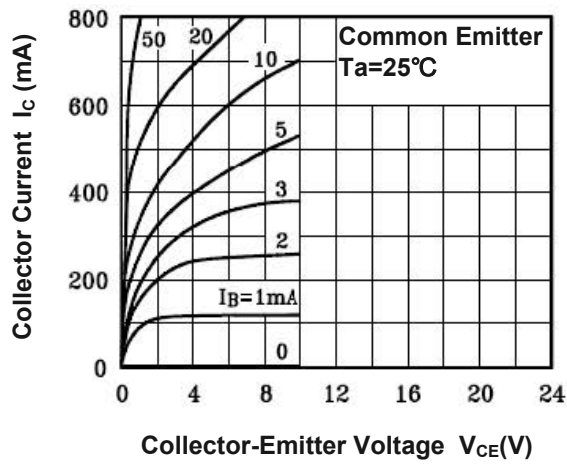
Parameter	Symbol	Value	Unit
Collector Base Voltage	V_{CBO}	120	V
Collector Emitter Voltage	V_{CEO}	120	V
Emitter Base Voltage	V_{EBO}	5	V
Collector Current	I_C	0.8	A
Maximum Power Dissipation	P_D	0.5	W
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C



Electrical Characteristics (T_A=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at V _{CE} = 5 V, I _C = 100 mA Current Gain Group O Y	H _{FE}	80 120	-- --	160 240	--
Collector Base Cutoff Current at V _{CB} = 120V	I _{CBO}	--	--	100	nA
Emitter Base Cutoff Current at V _{EB} = 5 V	I _{EBO}	--	--	100	nA
Collector Base Breakdown Voltage at I _C = 0.1 mA	V _{(BR)CBO}	120	--	--	V
Collector Emitter Breakdown Voltage at I _C = 1 mA	V _{(BR)CEO}	120	--	--	V
Emitter Base Breakdown Voltage at I _E = 0.1 mA	V _{(BR)EBO}	5	--	--	V
Collector Emitter Saturation Voltage at I _C = 500 mA, I _B = 50 mA	V _{CE(sat)}	--	--	1	V
Collector Emitter On Voltage at V _{CE} = 5 V, I _C = 500 mA	V _{CE(on)}	--	--	1	V
Transition Frequency at V _{CE} = 5 V, I _C = 500 mA	F _T	--	120	--	MHz
Output Capacitance at V _{CB} = 10 V, I _E = 0, f = 1 MHz	C _{ob}	--	--	30	pF

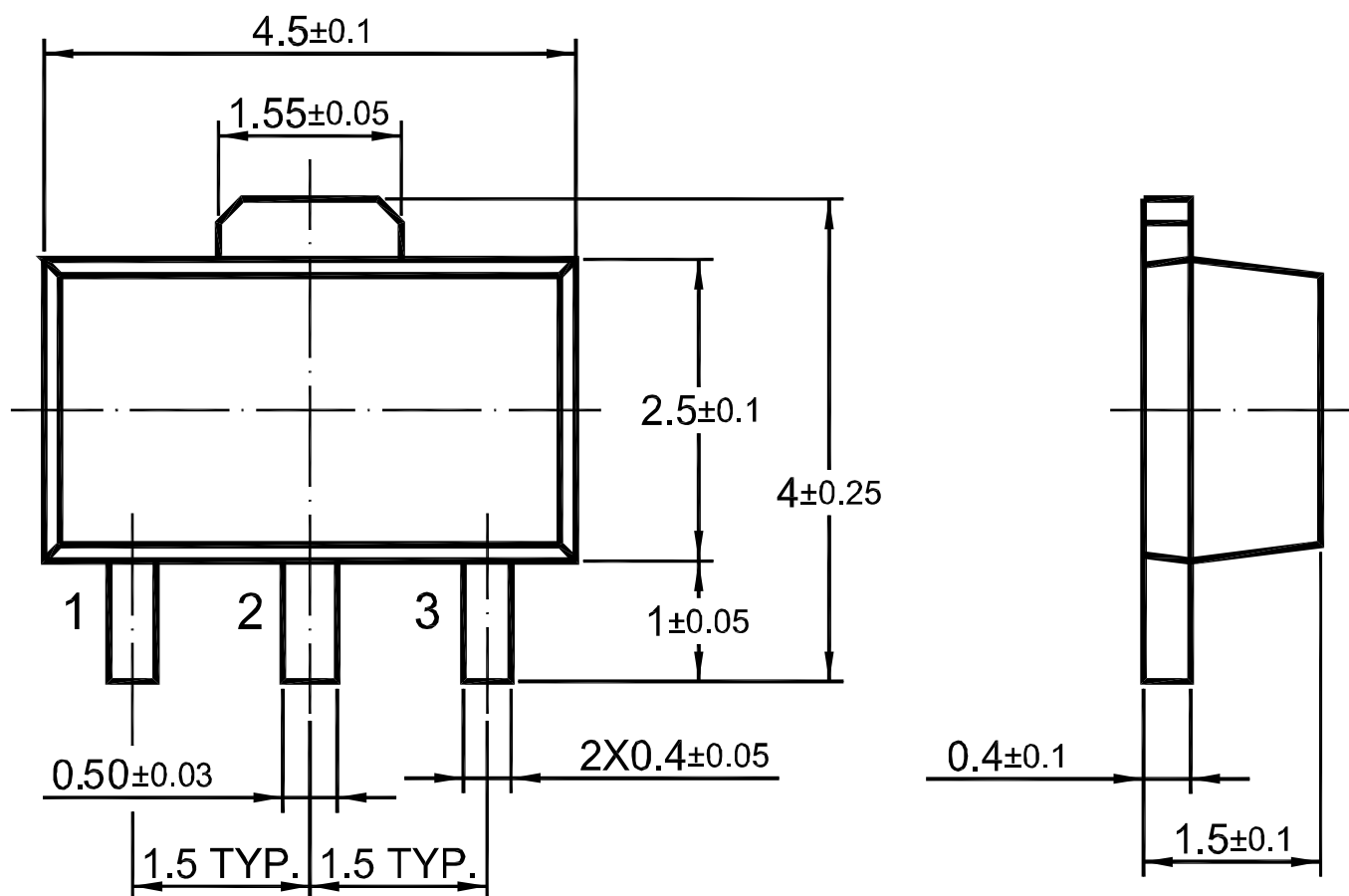
Typical Characteristic Curves



Package Outline

SOT-89

Dimensions in mm

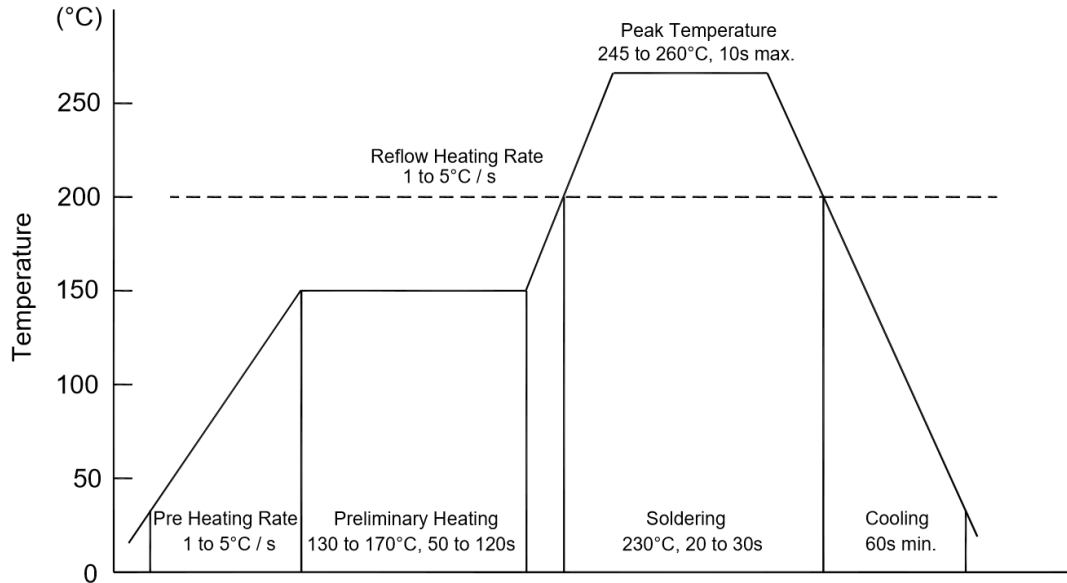


Ordering Information

Device	Package	Shipping
2SC4373SQ	SOT-89	1,000PCS/Reel&7inches
		3,000PCS/Reel&13inches

Conditions of Soldering and Storage

◆ Recommended condition of reflow soldering



Recommended peak temperature is over 245 °C. If peak temperature is below 245 °C, you may adjust the following parameters:

- Time length of peak temperature (longer)
- Time length of soldering (longer)
- Thickness of solder paste (thicker)

◆ Conditions of hand soldering

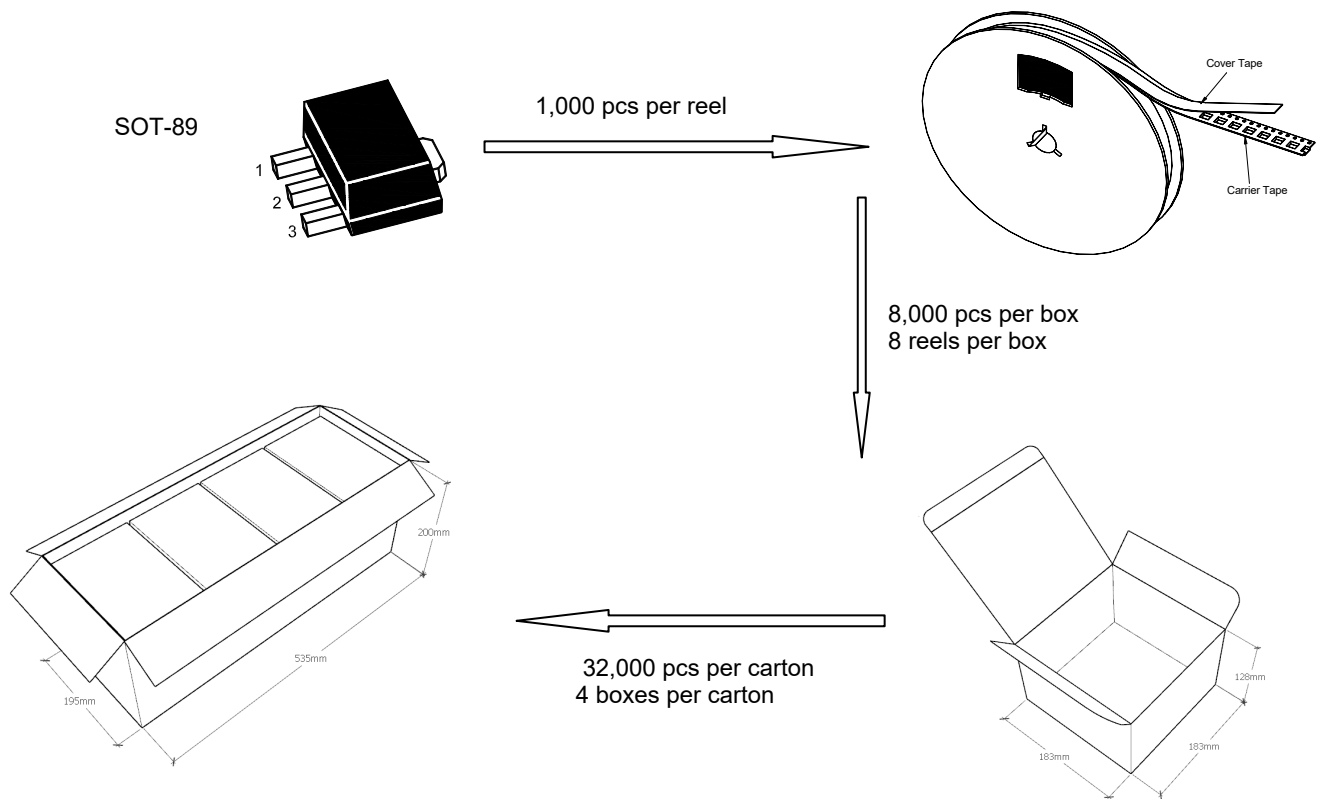
- Temperature: 370 °C
- Time: 3s max.
- Times: one time

◆ Storage conditions

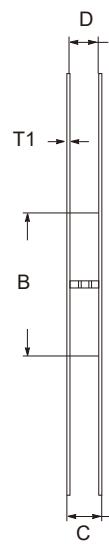
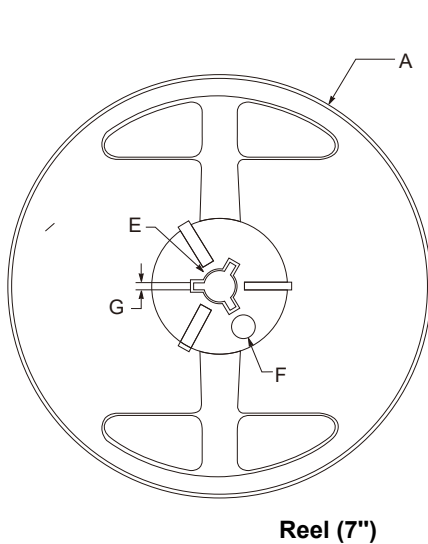
- **Temperature**
5 to 40 °C
- **Humidity**
30 to 80% RH
- **Recommended period**
One year after manufacturing

Package Specifications

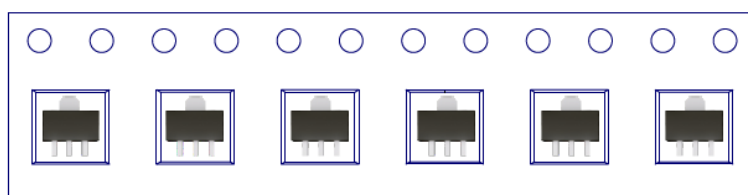
- The method of packaging (1,000PCS/Reel&7inches)



◆ Embossed tape and reel data

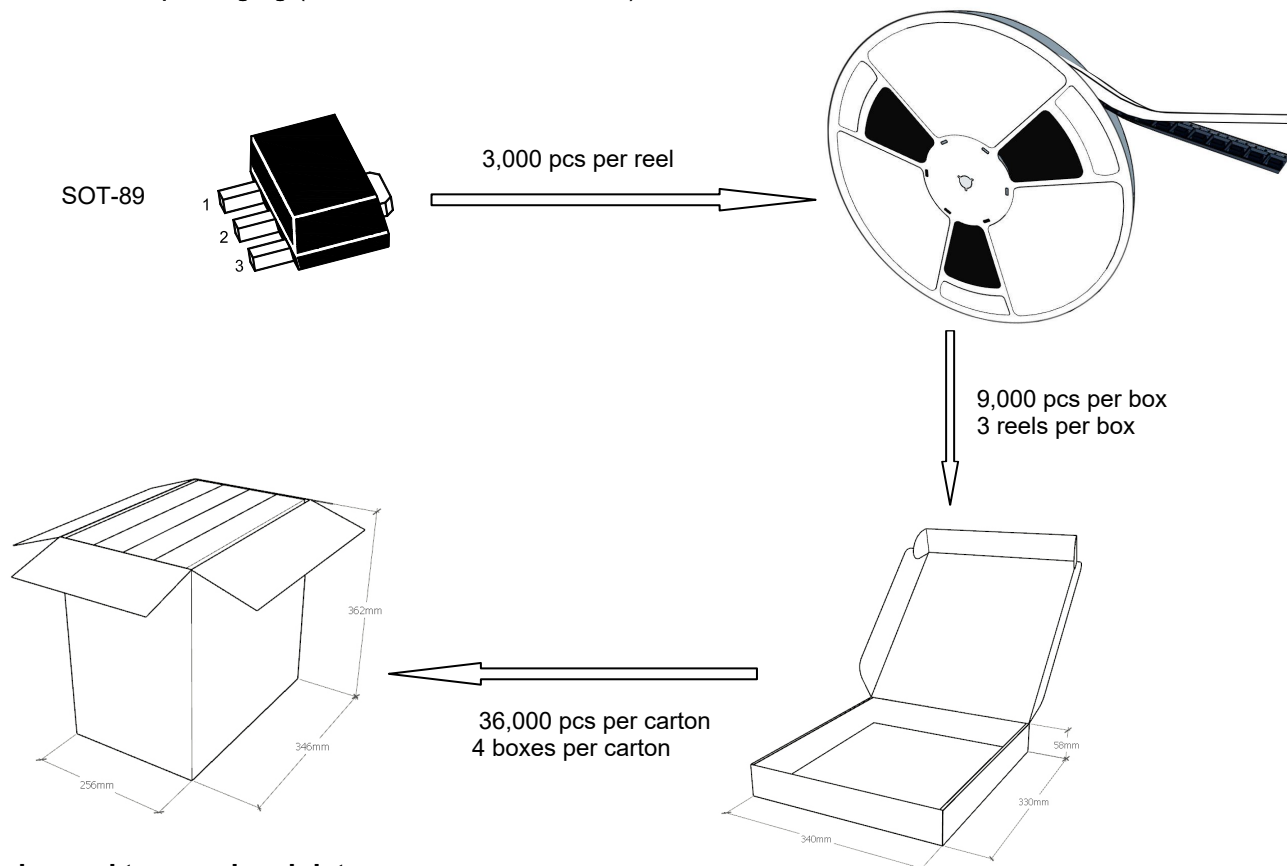


symbol	Value(unit:mm)
A	$\Phi 179 \pm 1$
B	60.5 ± 0.2
C	15.3 ± 0.3
D	$12.5 \sim 13.7$
E	$\Phi 13.5 \pm 0.2$
F	$\Phi 10.0 \pm 0.2$
G	2.7 ± 0.2
T1	1.0 ± 0.2

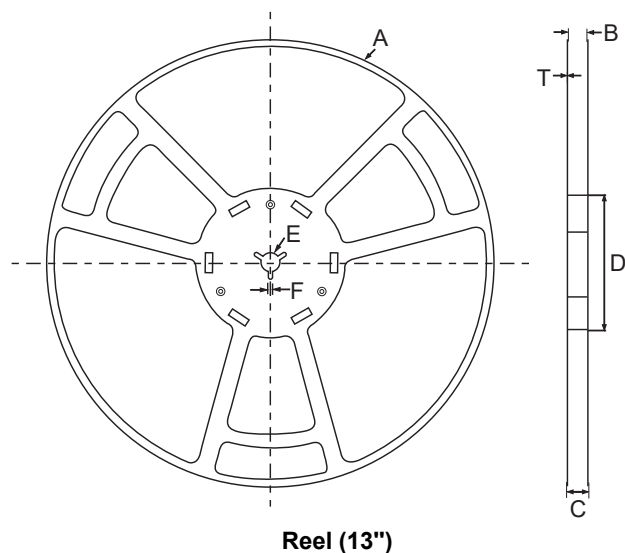


Package Specifications

- The method of packaging (3,000PCS/Reel&13inches)



◆ Embossed tape and reel data



symbol	Value(unit:mm)
A	$\Phi 330 \pm 1$
B	12.7 ± 0.5
C	16.5 ± 0.3
D	$\Phi 99.5 \pm 0.5$
E	$\Phi 13.6 \pm 0.3$
F	2.8 ± 0.3
T1	1.9 ± 0.2

