Continued from preceding page.

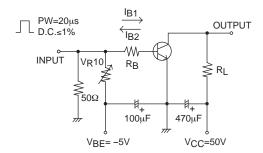
Parameter	Symbol	Conditions	Ratings	Unit
Collector Dissipation	PC		0.8	W
Collector dissipation	l PC	Tc=25°C	15	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
Parameter	Syllibol	Conditions	min	typ	max	UIII
Collector Cutoff Current	ІСВО	VCB=80V, IE=0A			1	μΑ
Emitter Cutoff Current	IEBO	V _{EB} =4V, I _C =0A			1	μΑ
DC Current Gain	hFE	V _{CE} =5V, I _C =100mA	300		600	
Gain-Bandwidth Product	fT	V _{CE} =10V, I _C =300mA		300		MHz
Output Capacitance	Cob	V _{CB} =10V, f=1MHz		13		pF
Collector-to-Emitter Saturation Voltage	V _{CE} (sat)	I _C =1A, I _B =100mA		110	165	mV
Base-to-Emitter Saturation Voltage	V _{BE} (sat)	I _C =1A, I _B =100mA		0.9	1.2	V
Collector-to-Base Breakdown Voltage	V(BR)CBO	I _C =10μA, I _E =0A	120			V
Collector-to-Emitter Breakdown Voltage	V(BR)CES	IC=100μA, RBE=0Ω	120			V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	IC=1mA, RBE=∞	100			V
Emitter-to-Base Breakdown Voltage	V(BR)EBO	I _E =10μA, I _C =0A	6.5			V
Turn-On Time	ton			40		ns
Storage Time	tstg	See specified Test Circuit.		1100		ns
Fall Time	tf			40		ns

Switching Time Test Circuit

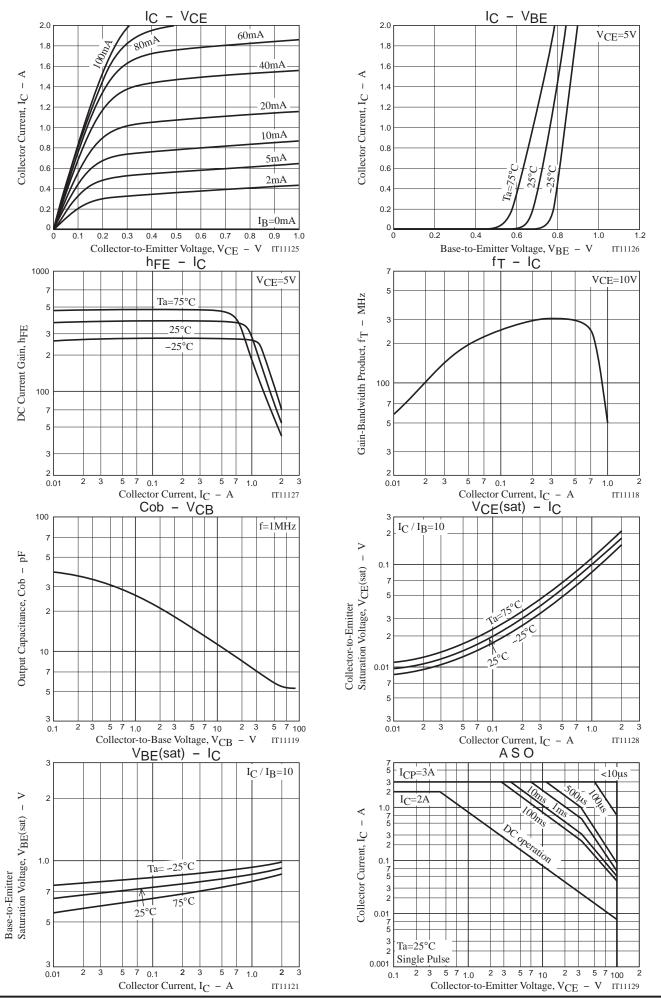


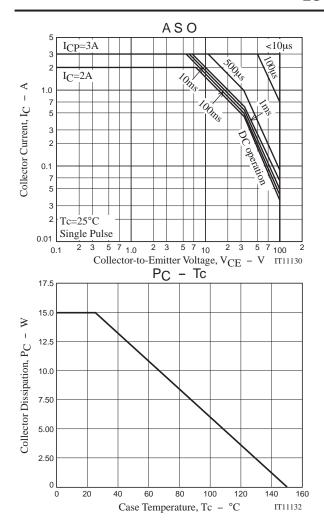
 $I_{C}=10I_{B1}=-10I_{B2}=0.5A$

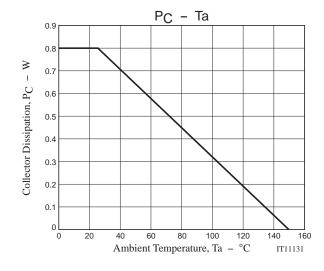
Ordering Information

Device	Package	Shipping	memo
2SC6099-E	TP	500pcs./bag	Pb Free
2SC6099-TL-E	TP-FA	700pcs./reel	PD FIEE

No. A0435-2/9





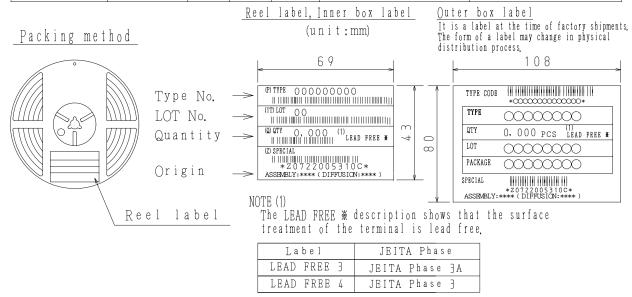


Taping Specification

2SC6099-TL-E

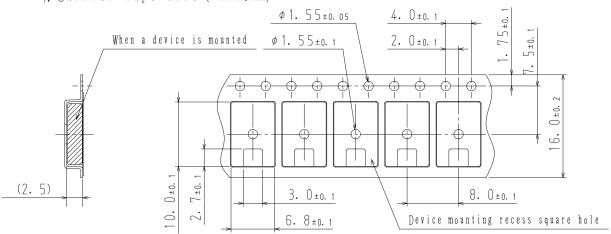
Packing Format

Package Name	Carrier Tape	Maximum Number of devices contained (pcs)			Packing	f o r m a t
	Туре	Reel	Inner box	Outer box	Inner BOX (C-1)	Outer BOX (A-7)
TP-FA	TP	700	2, 100	12, 600	3 reels contained	6 inner boxes contained
					Dimensions:mm (external)	Dimensions:mm (external)
					183×72×185	440×195×210

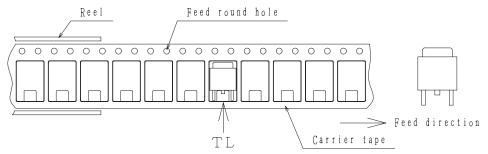


Taping configuration

1. Carrier tape size (unit:mm)



7. Device placement direction

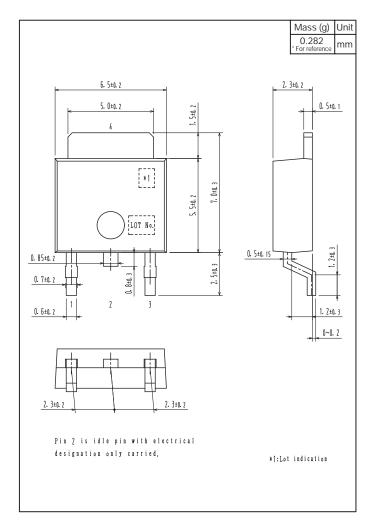


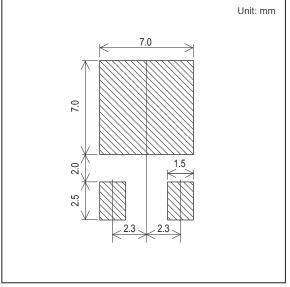
Those with one electrode terminal on the feed hole side · · · · · · TL

Outline Drawing

2SC6099-TL-E

Land Pattern Example



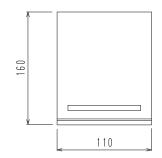


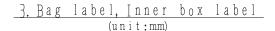
Bag Packing Specification 2SC6099-E

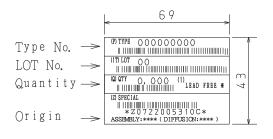
1. Packing Format

Package Name		Maximum Number of devices contained (pcs)				
I don'd go Ivamo	Вад	Inner box	Outer box			
TP		B-1	A-1	A-2		
1 1 1	500	10,000	50,000	30,000		
		Packing fo	mat (Dimensions:mm (external))			
		Inner box	Outer box			
		B-1	A-1	A-2		
		445×225×55	470×250×300	470×250×190		

2. Bag dimensions (unit:mm)





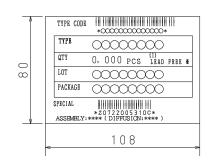


4. Outer box label (unit:mm)

It is a label at the time of factory shipments, The form of a label may change in physical distribution process,

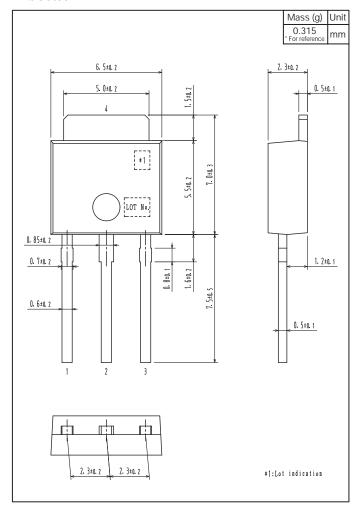
NOTE (1)
The LEAD FREE * description shows that the surface treatment of the terminal is lead free.

Label			JEITA Phase
LEAD FREE 3		3	JEITA Phase 3A
LEAD	FREE	4	JEITA Phase 3



Outline Drawing

2SC6099-E



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