Continued from preceding page.

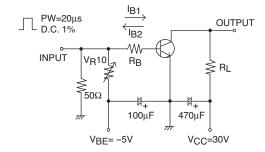
Parameter	Symbol	Conditions	Ratings	Unit
Collector Dissipation	Do		0.8	W
Collector dissipation	PC	Tc=25°C	15	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

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	Cumbal	Canditions		Ratings	Unit	
Parameter	Symbol	Conditions	min	typ	max	Unit
Collector Cutoff Current	ICBO	VCB=50V, IE=0A			1	μΑ
Emitter Cutoff Current	IEBO	V _{EB} =4V, I _C =0A			1	μΑ
DC Current Gain	hFE	V _{CE} =2V, I _C =100mA	300		600	
Gain-Bandwidth Product	fŢ	V _{CE} =10V, I _C =500mA		390		MHz
Output Capacitance	Cob	V _{CB} =10V, f=1MHz		18		pF
Collector-to-Emitter Saturation Voltage	V _{CE} (sat)1	I _C =1A, I _B =50mA		100	150	mV
	V _{CE} (sat)2	I _C =1A, I _B =100mA		90	135	mV
Base-to-Emitter Saturation Voltage VBE(sat)		I _C =1A, I _B =100mA		0.84	1.2	V
Collector-to-Base Breakdown Voltage	V(BR)CBO	IC=10μA, IE=0A	100			V
Collector-to-Emitter Breakdown Voltage	V(BR)CES	I _C =100μA, R _{BE} =0Ω	100			V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	IC=1mA, RBE=∞	60			V
Emitter-to-Base Breakdown Voltage V(BR)E		I _E =10μA, I _C =0A	6.5			V
Turn-On Time	ton			35		ns
Storage Time	t _{stg}	See specified Test Circuit		680		ns
Fall Time t _f				24		ns

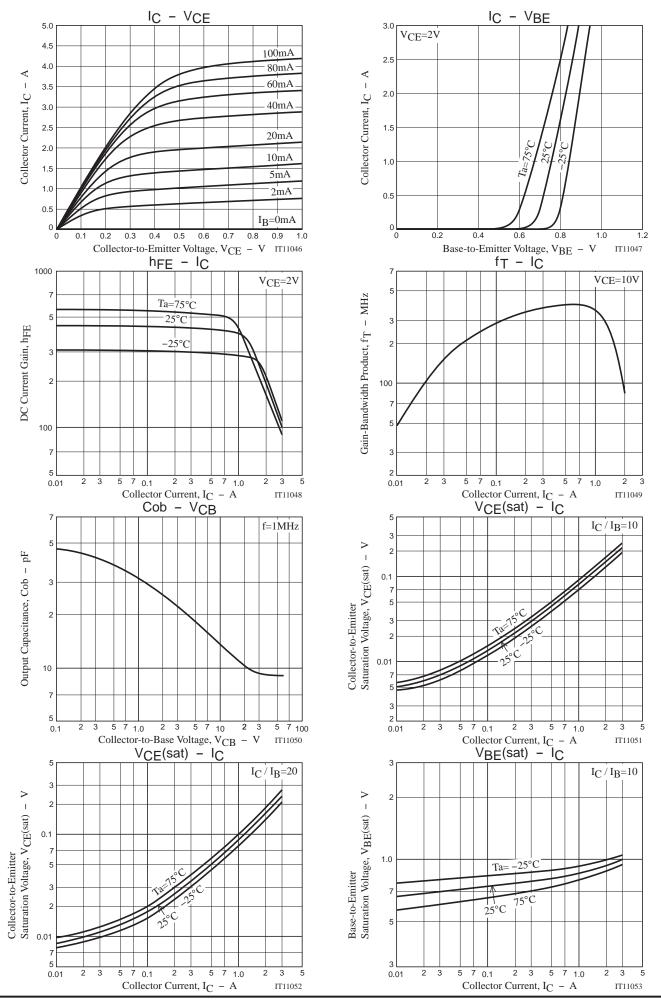
Switching Time Test Circuit

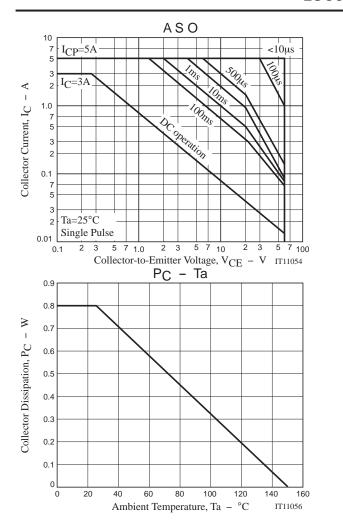


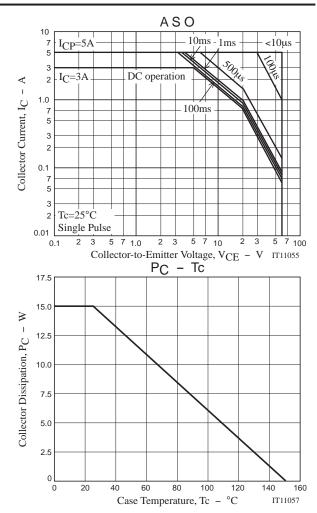
 $I_{C}=10I_{B1}=-10I_{B2}=0.5A$

Ordering Information

Device	Package	Shipping	memo	
2SC6097-E TP		500pcs./bag	Pb Free	
2SC6097-TL-E TP-FA		700pcs./reel	Pb Free	





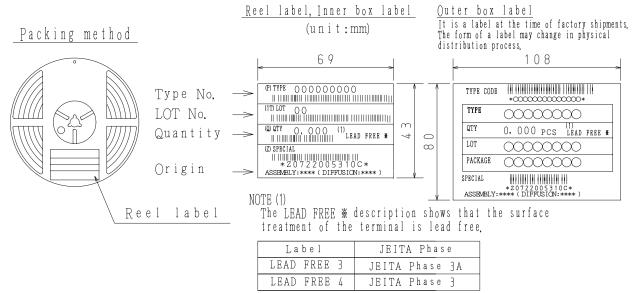


Taping Specification

2SC6097-TL-E

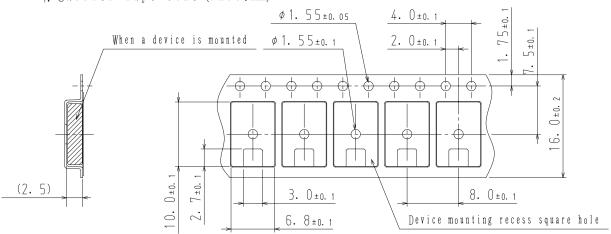
Packing Format

Package Name	Carrier Tape	Maximum Number of devices contained (pcs)			Packing format		
	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	

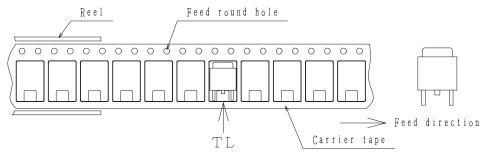


Taping configuration

1. Carrier tape size (unit:mm)



7. Device placement direction

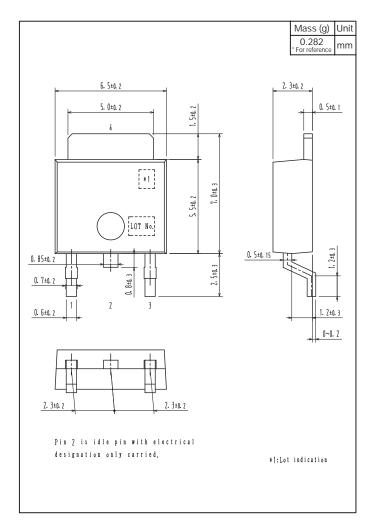


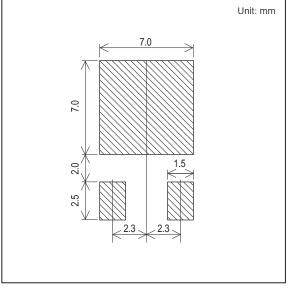
Those with one electrode terminal on the feed hole side · · · · · TL

Outline Drawing

2SC6097-TL-E

Land Pattern Example



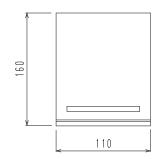


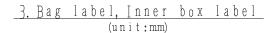
Bag Packing Specification 2SC6097-E

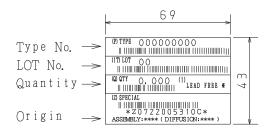
1. Packing Format

Package Name	Maximum Number of devices contained (pcs)				
1 4 4 11 4 8 4 11 4 11 11	Bag	Inner box	Outer box		
TP 500		B-1	A-1	A-2	
		10,000	50,000	30,000	
		Packing format (Dimensions:mm (external))			
		Inner box Outer box		рох	
		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,

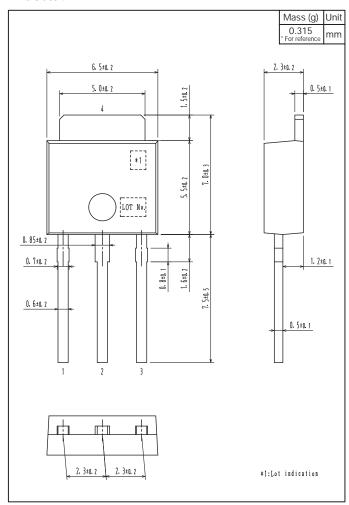


Label			JEITA Phase
LEAD	FREE	3	JEITA Phase 3A
LEAD	FREE	4	JEITA Phase 3

	TYPE CODE
	TYPE OCCOO
	QTY O, 000 PCS LEAD FREE #
8	LOT 000000000
	PACKAGE COCCO
	SPECIAL ####################################
	108

Outline Drawing

2SC6097-E



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