

2SD1618

Electrical Characteristics at Ta=25°C

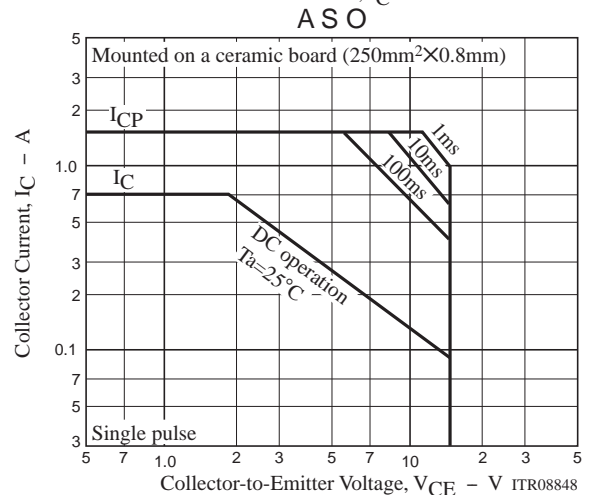
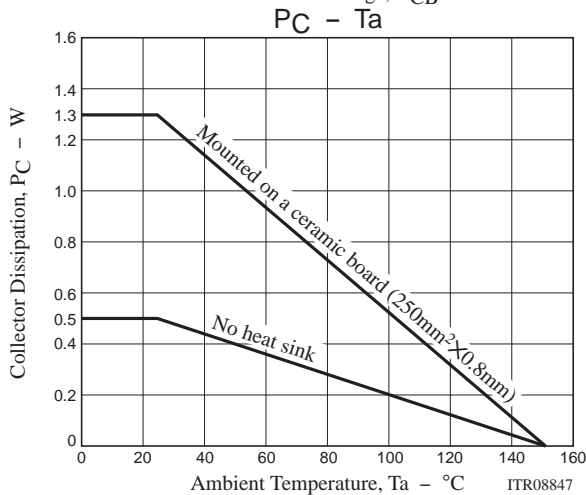
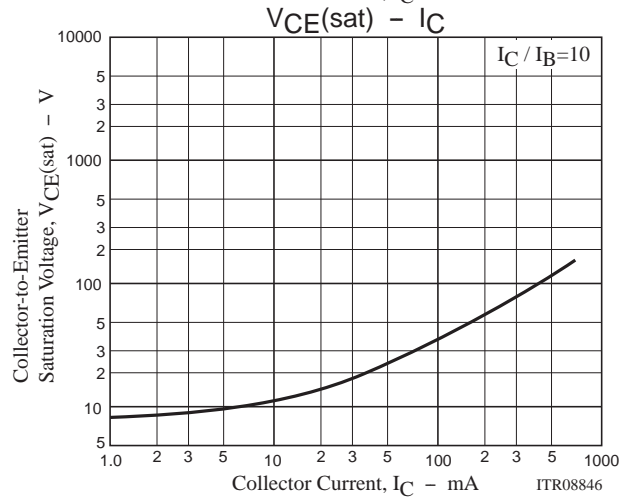
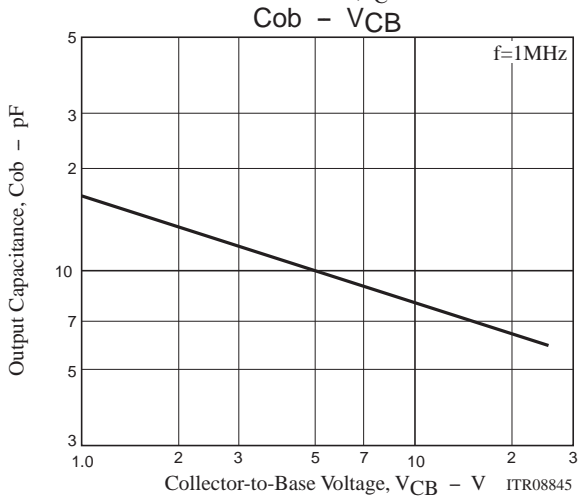
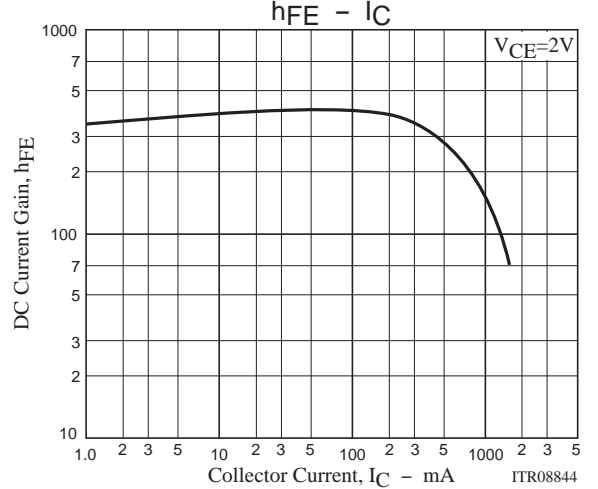
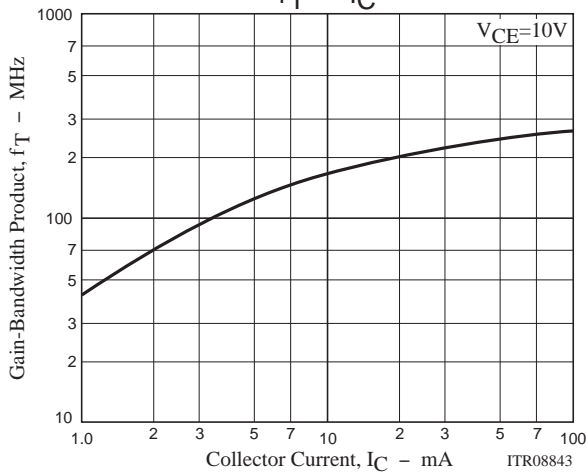
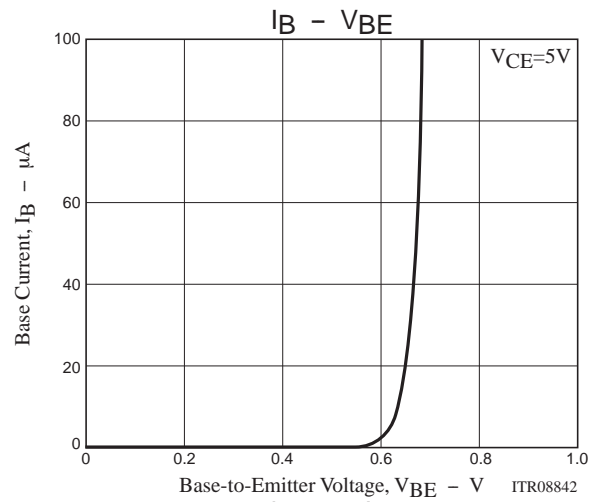
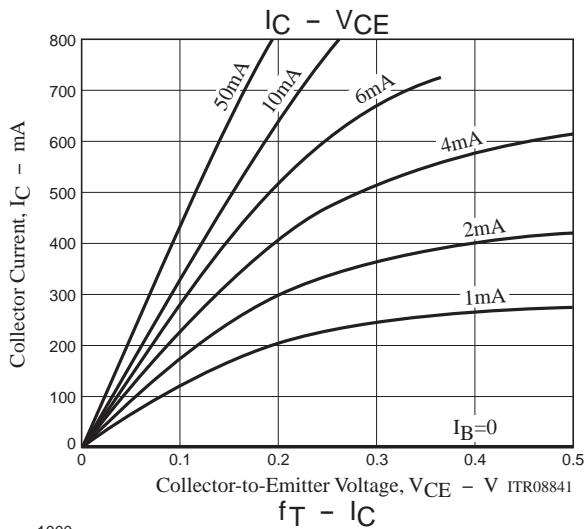
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	ICBO	V _{CB} =15V, I _E =0A			0.1	μA
Emitter Cutoff Current	IEBO	V _{EB} =4V, I _C =0A			0.1	μA
DC Current Gain	h _{FE} 1	V _{CE} =2V, I _C =50mA	140*		560*	
	h _{FE} 2	V _{CE} =2V, I _C =500mA	60			
Gain-Bandwidth Product	f _T	V _{CE} =10V, I _C =50mA		250		MHz
Collector-to-Emitter Saturation Voltage	V _{CE(sat)} 1	I _C =5mA, I _B =0.5mA		10	25	mV
	V _{CE(sat)} 2	I _C =100mA, I _B =10mA		30	80	mV
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =100mA, I _B =10mA		0.8	1.2	V
Collector-to-Base Breakdown Voltage	V(BR)CBO	I _C =10μA, I _E =0A	20			V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	I _C =1mA, R _{BE} =∞	15			V
Emitter-to-Base Breakdown Voltage	V(BR)EBO	I _E =10μA, I _C =0A	5			V
Output Capacitance	C _{ob}	V _{CB} =10V, f=1MHz		8		pF

* : The 2SD1618 is classified by 50mA hFE as follows :

Rank	S	T	U
hFE	140 to 280	200 to 400	280 to 560

Ordering Information

Device	Package	Shipping	memo
2SD1618S-TD-E	PCP	1,000pcs./reel	Pb Free
2SD1618T-TD-E	PCP	1,000pcs./reel	



Bag Packing Specification

2SD1618S-TD-E, 2SD1618T-TD-E

1. Packing Format

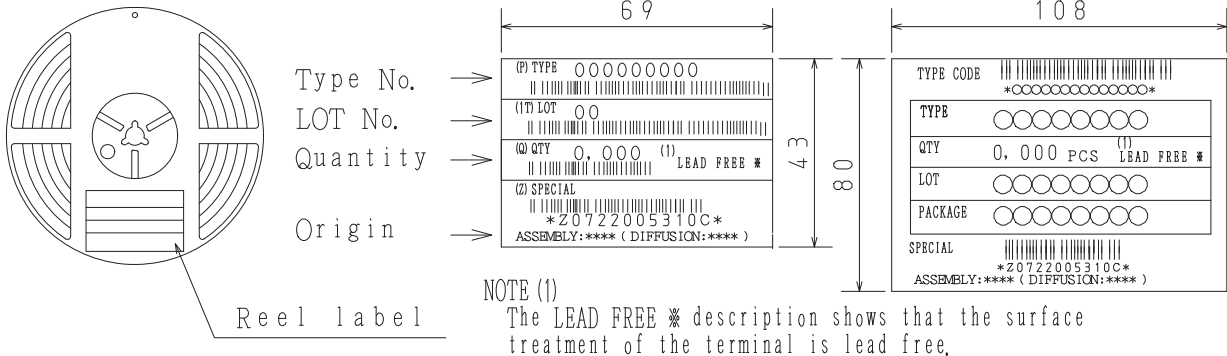
Package Name	Carrier Tape Type	Maximum Number of devices contained (pcs)			Packing format	
		Reel	Inner box	Outer box	Inner BOX (C-1)	Outer BOX (A-7)
PCP	PCP	1,000	4,000	24,000	4 reels contained Dimensions:mm (external) 183×72×185	6 inner boxes contained Dimensions:mm (external) 440×195×210

Reel label, Inner box label
(unit:mm)

Outer box label

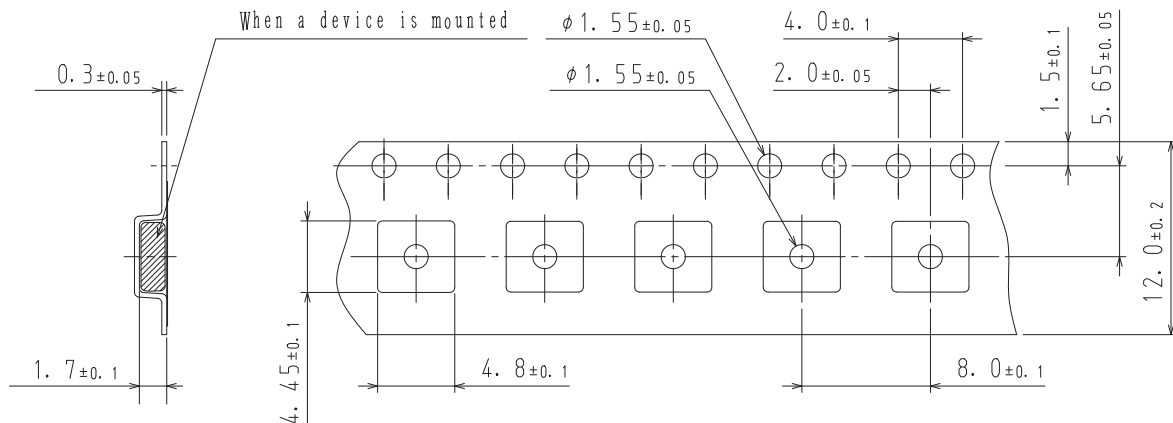
It is a label at the time of factory shipments.
The form of a label may change in physical distribution process.

Packing method

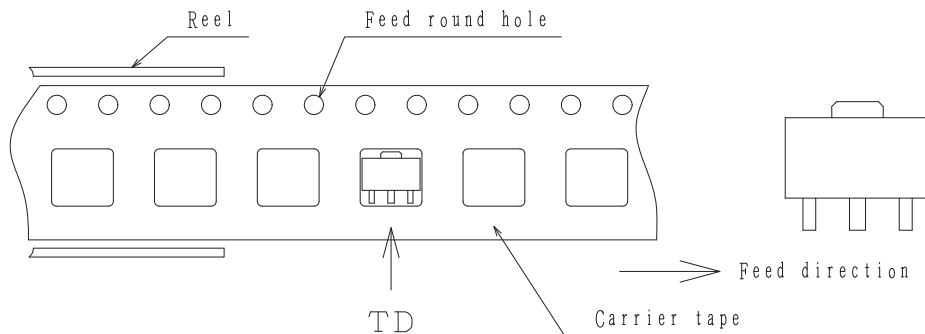


2. Taping configuration

2-1. Carrier tape size (unit:mm)



2-2. Device placement direction



Those with pin 1 index on the feed hole side.....TD

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