Continued from preceding page.

Parameter	Symbol	Conditions	Ratings	Unit
Collector Dissipation	Da		500	mW
	PC	When mounted on ceramic substrate (250mm ² x0.8mm)	1.3	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

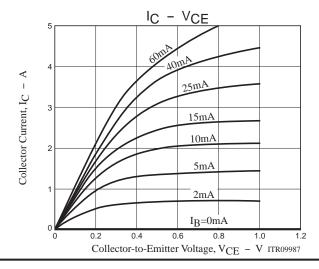
Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

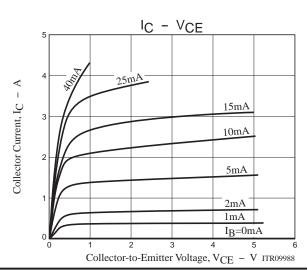
Electrical Characteristics at Ta=25°C

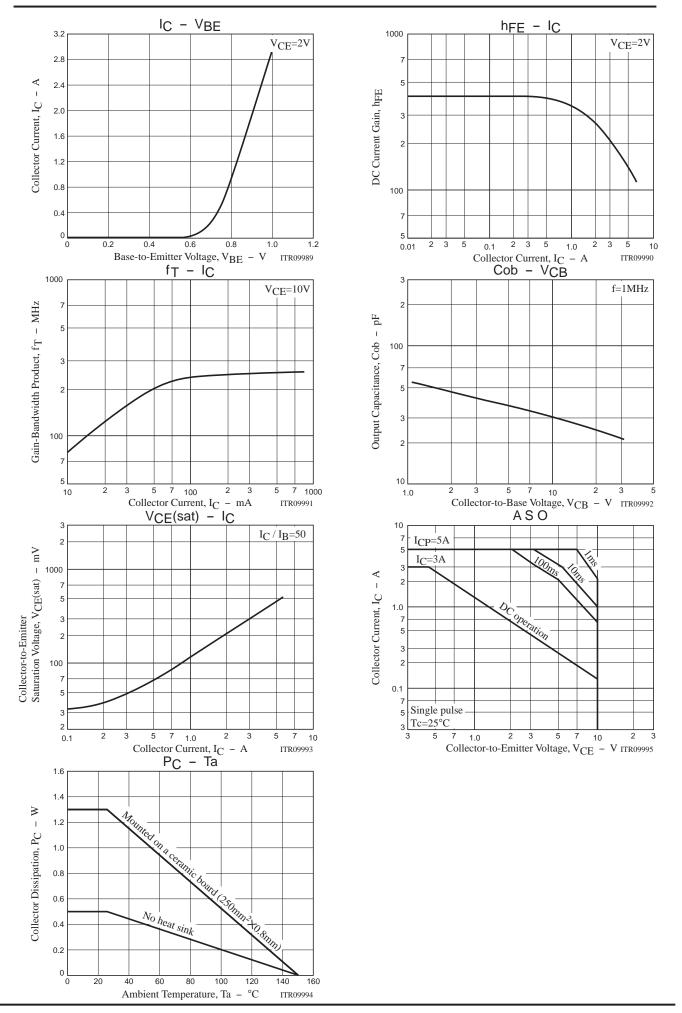
Parameter	Symbol	Conditions	Ratings			Unit	
Parameter	Syllibol	Conditions	min	typ	max	l Ollit	
Collector Cutoff Current	ICBO	V _{CB} =20V, I _E =0A			100	nA	
Emitter Cutoff Current	IEBO	V _{EB} =4V, I _C =0A			100	nA	
DC Current Gain	hFE	V _{CE} =2V, I _C =3A	140	210			
Gain-Bandwidth Product	fŢ	V _{CE} =10V, I _C =50mA		200		MHz	
Output Capacitance	Cob	V _{CB} =10V, f=1MHz		30		pF	
Collector-to-Emitter Saturation Voltage	V _{CE} (sat)	IC=3A, IB=60mA		0.3	0.4	V	
Collector-to-Base Breakdown Voltage	V(BR)CBO	I _C =10μA, I _E =0A	30			V	
Collector-to-Emitter Breakdown Voltage	V(BR)CEX	IC=1mA, VBE=3V	20			V	
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	IC=1mA, RBE=∞	10			V	
Emitter-to-Base Breakdown Voltage	V(BR)EBO	I _E =10μA, I _C =0A	6			V	

Ordering Information

Device	Package	Shipping	memo	
2SD1620-TD-E	1620-TD-E PCP		Pb Free	





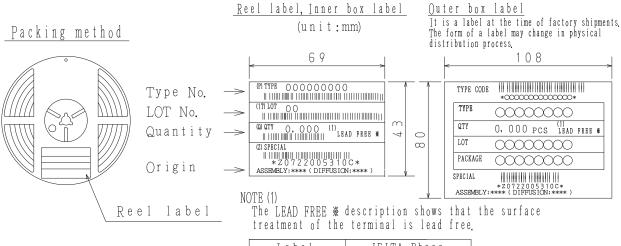


Bag Packing Specification

2SD1620-TD-E

1. Packing Format

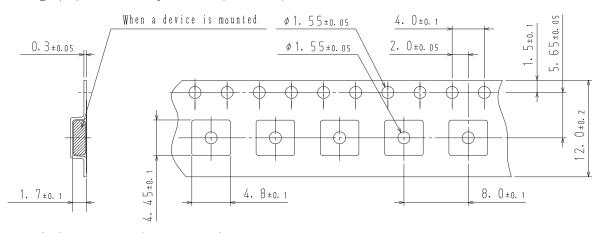
Package Name	Carrier Tape	Maximum Number of devices contained (pcs)			Packing	ng format		
	Туре	Reel	Inner box	Outer box	Inner BOX (C-1)	Outer BOX (A-7)		
PCP	PCP	1, 000	4,000	24, 000	4 reels contained	6 inner boxes contained		
					Dimensions:mm (external)	Dimensions:mm (external)		
					183×72×185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



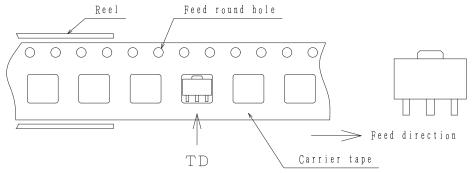
Label JEITA Phase LEAD FREE 3 JEITA Phase 3A LEAD FREE 4 JEITA Phase 3

2. Taping configuration

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



2-2. Device placement direction



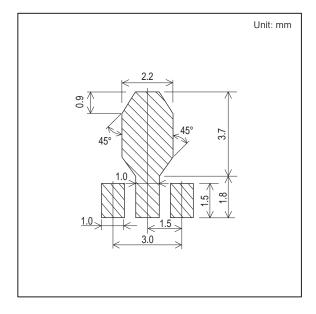
Those with pin 1 index on the feed hole side·····TD

Outline Drawing

2SD1620-TD-E

Mass (g) Unit 0.058 mm 4. 5±0. 1 1. 6±0. 2 _ 1.5±0.1_ 2. 5±0. 1 4. 0±0. 2 1. 0±0. 2 0. 4+0. 08 0. 4±0. 03 0. 5^{+0. 05} 1. 5±0. 2 3. O±0. 2 0. 75 0.10 *1:Lot indication

Land Pattern Example



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