2N6125

Rev.H Oct.-2018

DATA SHEET

"Yب / Descriptions

TO-220 PNP Silicon PNP transistor in a TO-220 Plastic Package.

◕ È / Features

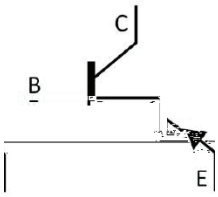
2N6122

Complement to 2N6122.

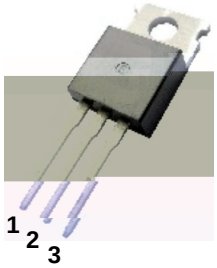
٧ ِ / Applications

Medium power linear switching applications.

ЛفّQ̃ ≠ ɛ / Equivalent Circuit



ãﻵ ŭ˜ / Pinning



PIN1 Base PIN 2 Collector PIN 3 Emitter

Q̃ ٪ z ł. ʜ ב / h_{FE} Classifications & Marking

See Marking Instructions.

ώ ̈ Ξ ̃Ą / Absolute Maximum Ratings(Ta=25 ɹ)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-60	V
Collector to Emitter Voltage	V_{CEO}	-60	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-4.0	A
Peak Collector Current	I_{CM}	-7.0	A
Base Current - Continuous	I_B	-1.0	A
Collector Power Dissipation	$P_C(T_C=25$)	40	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

≠ ∧ Ξ ̃Ą / Electrical Characteristics(Ta=25 ɹ)

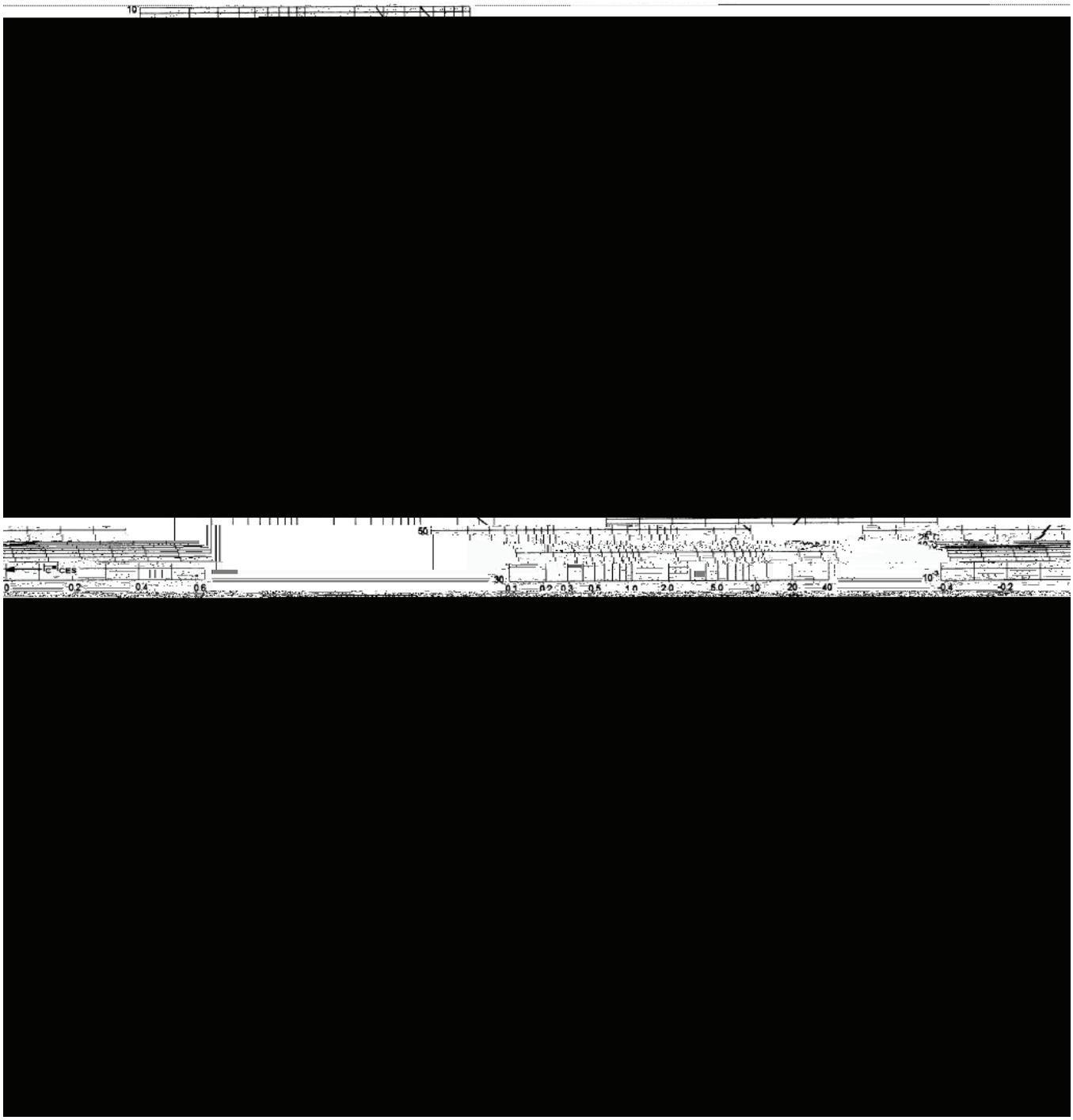
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage*	*V_{CEO}	I_C=-100mA I_B=0	-60			V
Collector to Emitter Breakdown Voltage	V_{CBO}	I_C=-1mA I_E=0	-60			V
Emitter to Base Breakdown Voltage	V_{EBO}	I_E=-1mA I_c=0	-5.0			V
Collector Cut-Off Current	I_{CBO}	V_{CB}=-60V I_E=0			-0.1	mA
Collector Cut-Off Current	I_{CEO}	V_{CE}=-60V I_B=0			-1.0	mA
Emitter Cut-Off Current	I_{EBO}	V_{EB}=-5.0V I_C=0			-1.0	mA
DC Current Gain	*$h_{FE(1)}$	V_{CE}=-2.0V I_C=-1.5A	25		100	
	*$h_{FE(2)}$	V_{CE}=-2.0V I_C=-4.0A	10			
Collector to Emitter Saturation Voltage*	*$V_{CE(sat)}$	I_C=-1.5A I_B=0.15A			-0.6	V
Collector to Emitter Saturation Voltage*	*$V_{CE(sat)}$	I_C=-4.0A I_B=-1.0A			-1.4	V
Base to Emitter On Voltage*	*$V_{BE(on)}$	I_C=-1.5A V_{CE}=-2.0V			-1.2	V
Transition Frequency	f_T	I_C=-1.0A V_{CE}=-4.0V f=1.0MHz	2.5			MHz

*Pulse test: pulse width 300 μs; duty cycle 2%.

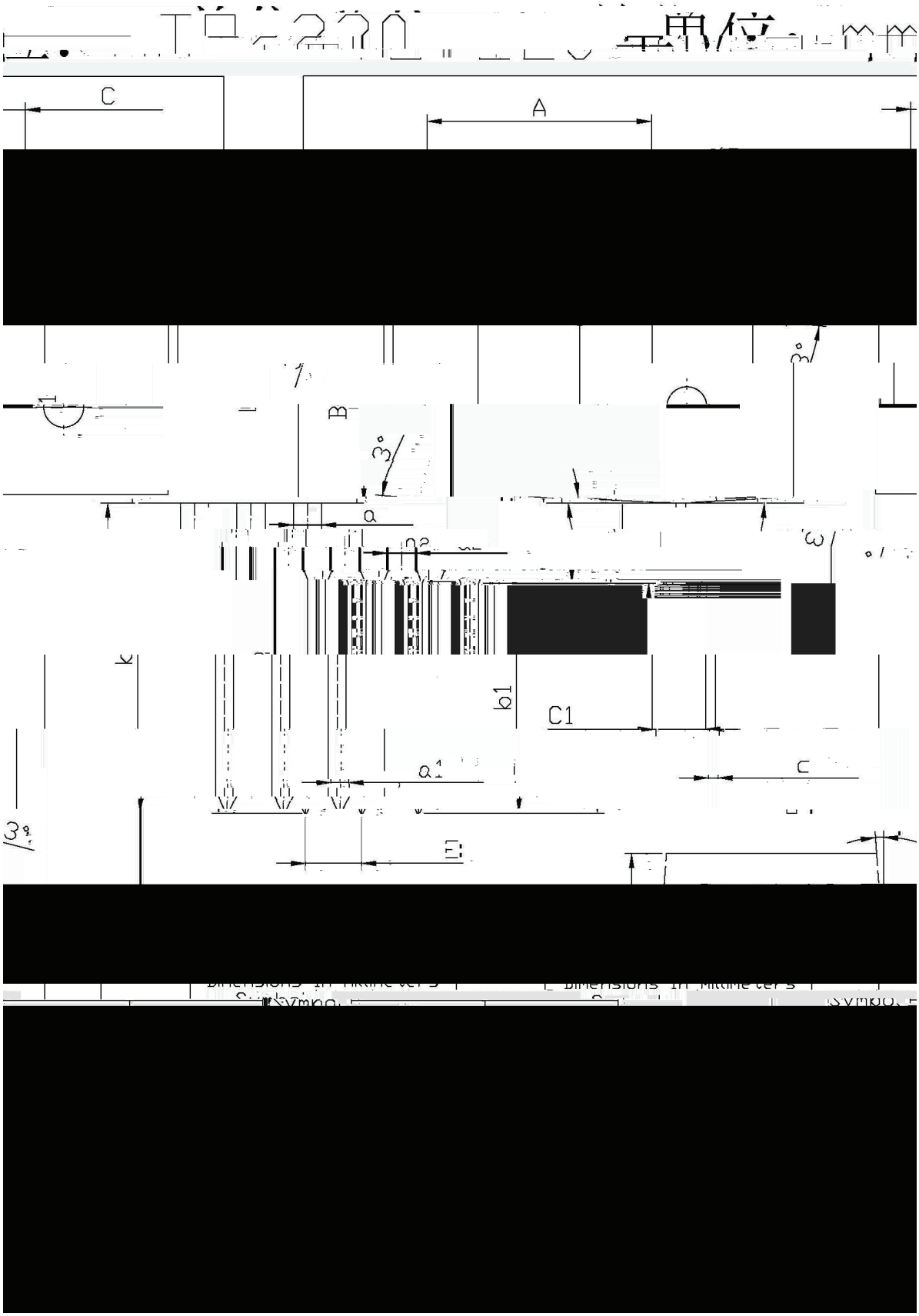
* ≤300μs ≤2%

≠ ∃ ˜Ą´E ∀ ƒ / Electrical Characteristic Curve

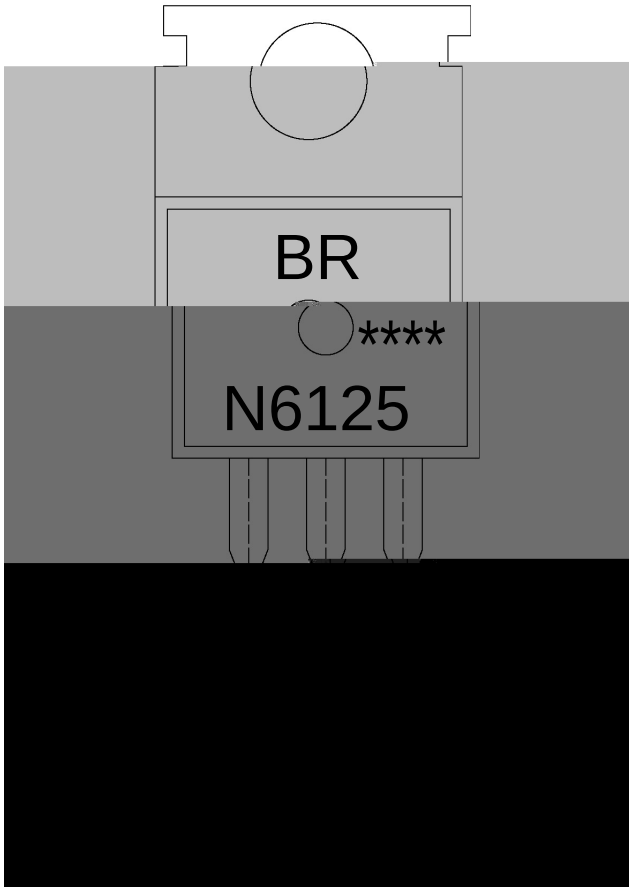
(SOA)



ᵘ Ė Ò Ļ ƒ / Package Dimensions



ł. Ļ Ω / Marking Instructions



BR

N6125

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Note:

BR:	Company Code
N6125:	Product Type.
****:	Lot No. Code, code change with Lot No.

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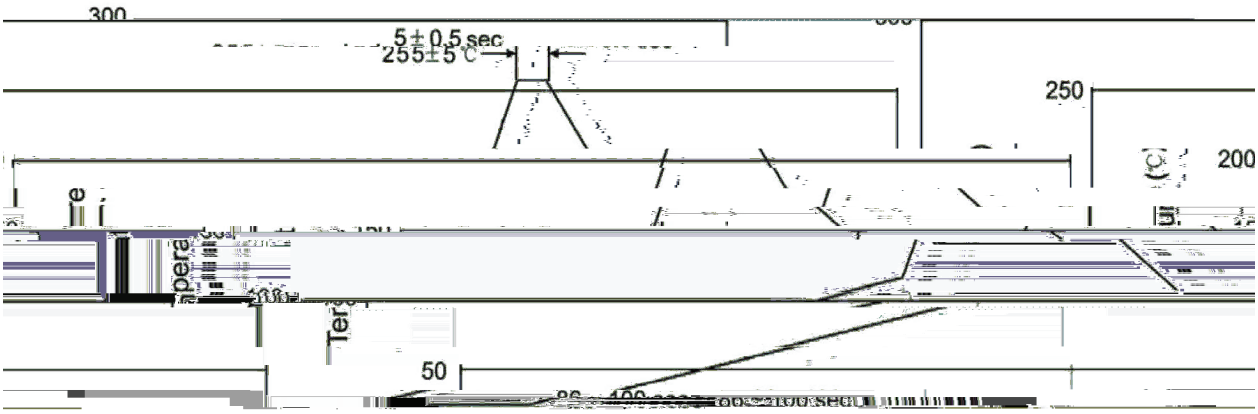

						Note:
1		25	150		60	90sec;
2		255±5				5±0.5sec;
3				2	10	/sec.

1.Preheating:25~150 , Time:60~90sec.
2.Peak Temp.:255±5 , Duration:5±0.5sec.
3. Cooling Speed: 2~10 /sec.

ᛋ ŭ ɋ ̄ ᾽Y Ţ / Resistance to Soldering Heat Test Conditions

270±5	10±1 sec.	Temp.:270±5	Time:10±1 sec

ɒ Ŀ ᴋ— / Packaging SPEC.

/ BULK

Package Type	Units					Dimension		(unit mm³)
	Units/Bag /	Bags/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Bag	Inner Box	Outer Box
TO-220/F	200	10	2,000	5	10,000	135×190	237×172×102	560×245×195

/ TUBE

Package Type	Units					Dimension		(unit mm³)
	Units/Tube /	Tubes/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Tube	Inner Box	Outer Box
TO-220/F	50	20	1,000	5	5,000	532×31.4×5.5	555×164×50	575×290×180

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