2SD669TA

Rev.E Mar.-2016

蓝箭电子
BLUE ROCKET ELECTRONICS
DATA SHEET

VRW0;< ṂṂȽ QSQ ᴂṀɥ s Ⅱ ㇁ Silicon NPN transistor in a SOT-89 Plastic Package.

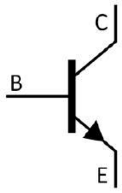
љ 5VE97<WD Й ´

Complementary pair with 2SB649TA.

ꝼ҈ Ḩ ļ ı ' ῳ ␥

Low frequency power amplifier.

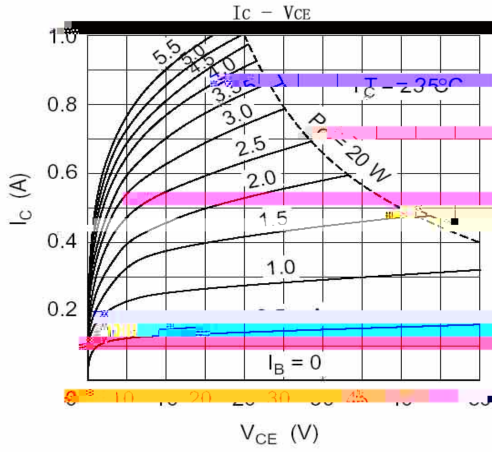
Лڧ ᾆ ؞ ع

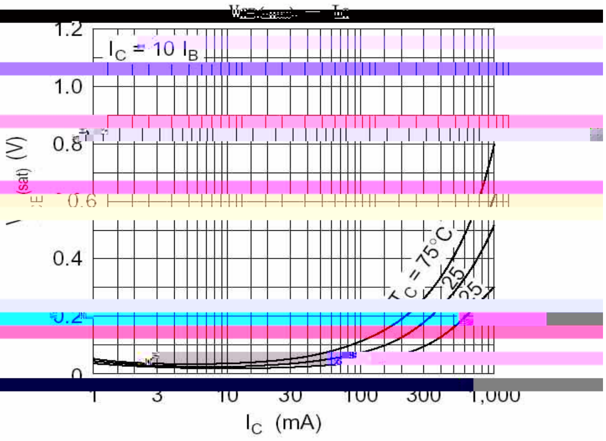


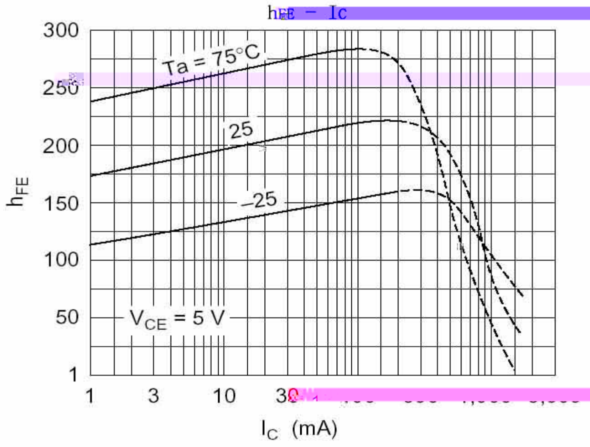
v ˝Ω̣ Parameter	⅄ ᴺ Symbol	˝Ω̣ Ӫ Rating	ᴅ Ꞩ Unit
Collector to Base Voltage	V_{CBO}	180	V
Collector to Emitter Voltage	V_{CEO}	160	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current-Continuous	I_C	1.5	A
Collector Current-Continuous (Pluse)	I_{CP}	3.0	A
Collector Power Dissipation	P_C	500	mW
Collector Power Dissipation	P_C(Tc=25)	20	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

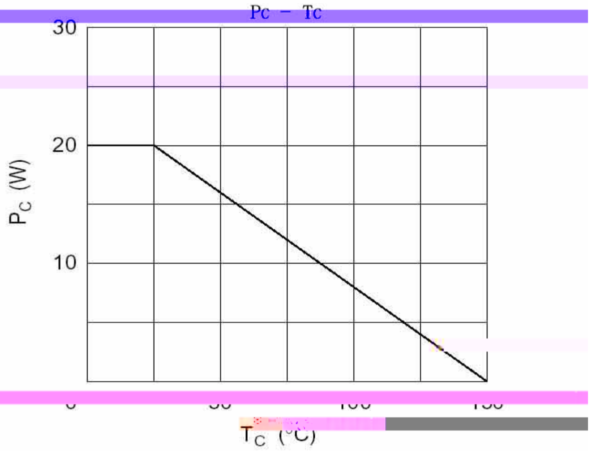
v ˝Ω̣ Parameter	⅄ ᴺ Symbol	╜ :↑ ţ Test Conditions	ω̣ ṇ Ӫ Min	Ɛ ʒ Ӫ Typ	ω̣ ᶻ Ӫ Max	ᴅ Ꞩ Unit
Collector to Base Breakdown Voltage	V_{CBO}	I_C=1.0mA I_E=0	180			V
Collector to Emitter Breakdown Voltage	V_{CEO}	I_C=10mA $R_{BE}=\infty$	160			V
Emitter to Base Breakdown Voltage	V_{EBO}	I_E=1.0mA I_C=0	5.0			V
Collector Cut-Off Current	I_{CBO}	V_{CB}=160V I_E=0			10	μA
DC Current Gain	$h_{FE(1)}$	V_{CE}=5.0V I_C=150mA	60		320	
	$h_{FE(2)}$	V_{CE}=5.0V I_C=500mA	30			
Base to Emitter Voltage	V_{BE}	V_{CE}=5.0V I_C=150mA			1.5	V
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=500mA I_B=50mA			1.0	V
Transition Frequency	f_T	V_{CE}=5.0V I_C=150mA		140		MHz-0.0001

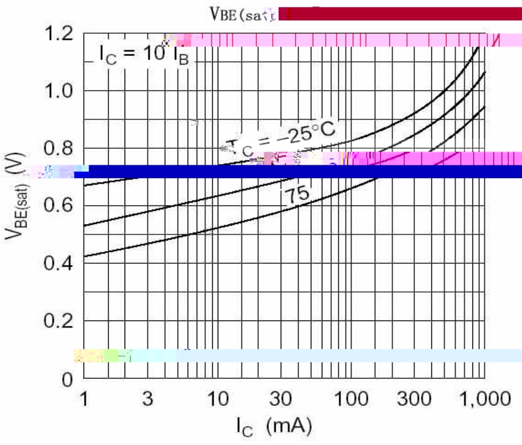
/ Electrical Characteristic Curve

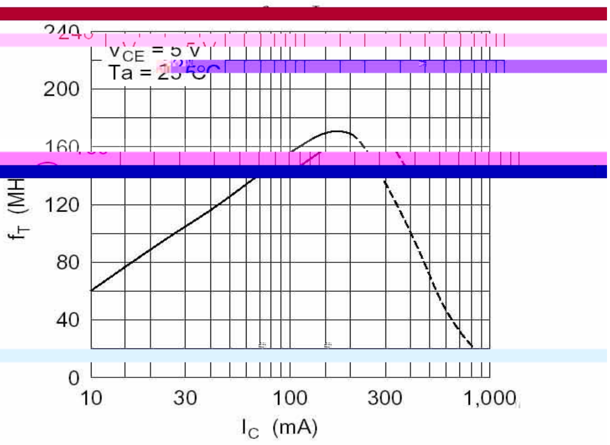










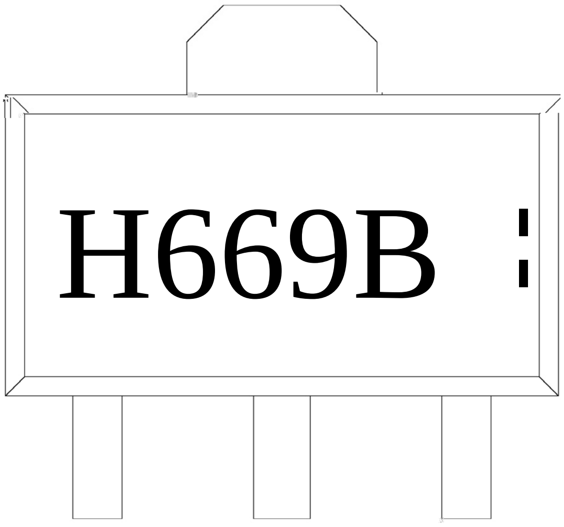


ᵘ ẺỒ Ḽ ʄ / Package Dimensions

SOT-89

单位：mm

ł˛ ĿΏ / Marking Instructions



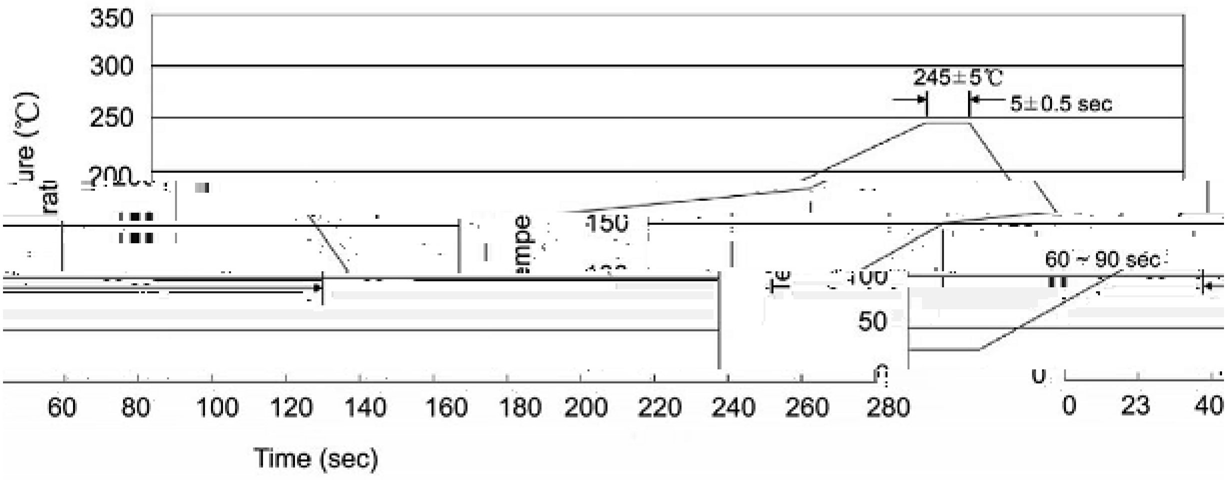
ب ˝ χ

H χ	ꞩ ३ ᴻ Ҧ
669 χ	ꞩ ʒ ᴺ Ҧ
B χ	ꞩ h_{FE} ˂ ⁶ Ҧ
-- χ	ꞩ ꜗ ғ ή ᴺ Ҧ ı ҽ ꜗ ғ ή ᴺ ψ ק

Note:

H:	Company Code.
669:	Product Type.
B χ	h_{FE} Classifications Symbol
**:	Lot No. Code, code change with Lot No.

ŧћ ʃ ╗ ŵ΄E ˅ ƒ (ὦ ۺ) / Wh p shudwxuh Sur iloh iru LU Uhiorz Vroghulqj+Se0Iuhh,



ب ˝ χ
1 ỉ ♬ □ ŷ 25 Ḱ 150 ł ˛ `H ڗ 60 Ḱ 90sec;
2 Š Ӫ □ ŷ 245 ° 5 ł ˛ `H ڗ `Y ⺌ ㄫ 5 ° 0.5sec;
3 ỉ ˙ Ỉ ˛ ɔ ௸ ŷ ㄫ 2 Ḱ 10 ł /sec.

Note:
1.Preheating:25~150 ł , Time:60~90sec.
2.Peak Temp.:245 ° 5 ł , Duration:5 ° 0.5sec.
3. Cooling Speed: 2~10 ł /sec.

⺦ ü զ ˜ `Y Ţ / Resistance to Soldering Heat Test Conditions

□ ŷ χ 260 ° 5 ł `H ڗ χ 10 ° 1 sec.

Temp.:260±5 Time:10±1 sec

ϿĿ Ł— / Packaging SPEC.

ი` ץ Ŀ / REEL

Package Type	Units					Dimension		(unit mm^3)

ä ⱱ ɩ Ώ / Notices