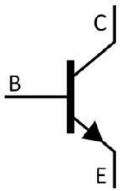


Silicon NPN transistor in a SOT-89 Plastic Package.

Low collector saturation voltage, High speed switching time, small flat package, Complementary to 2SA1213.

Power amplifier and switching applications.



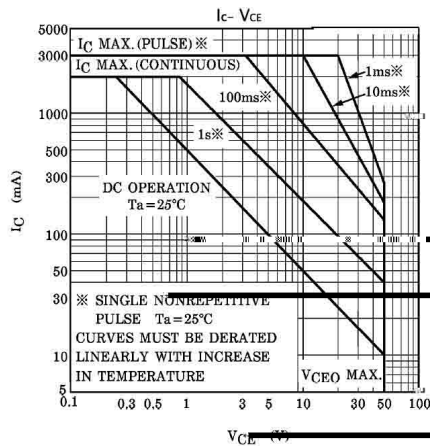
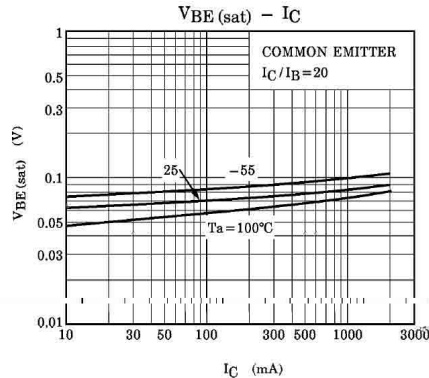
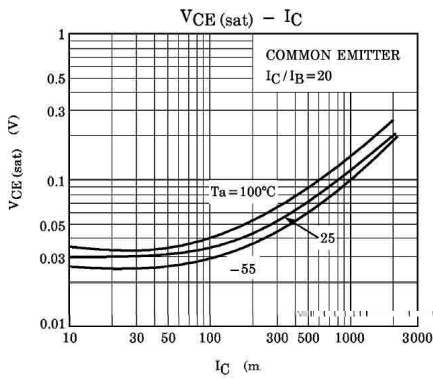
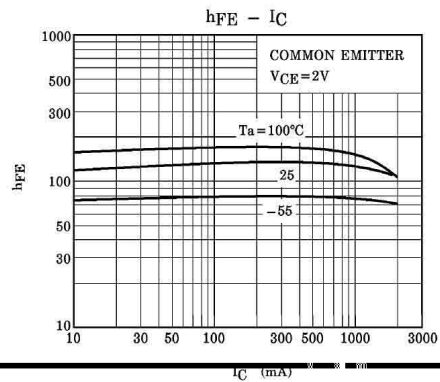
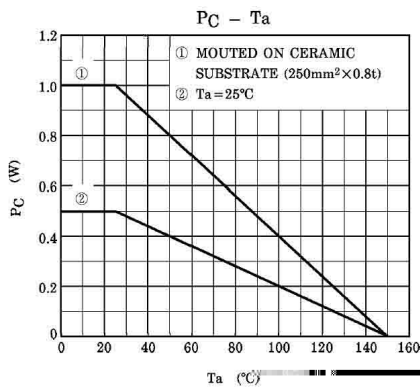
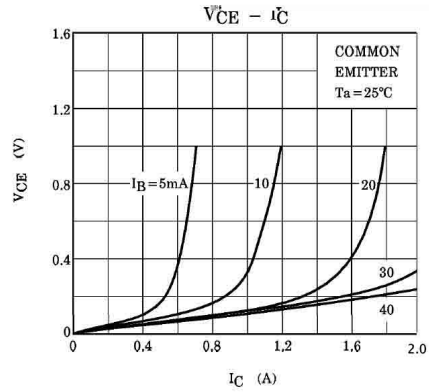
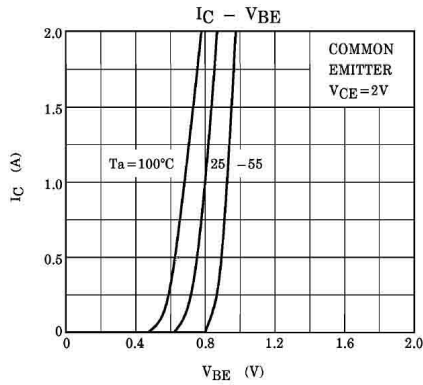
PIN1 Base PIN 2 Collector PIN 3 Emitter

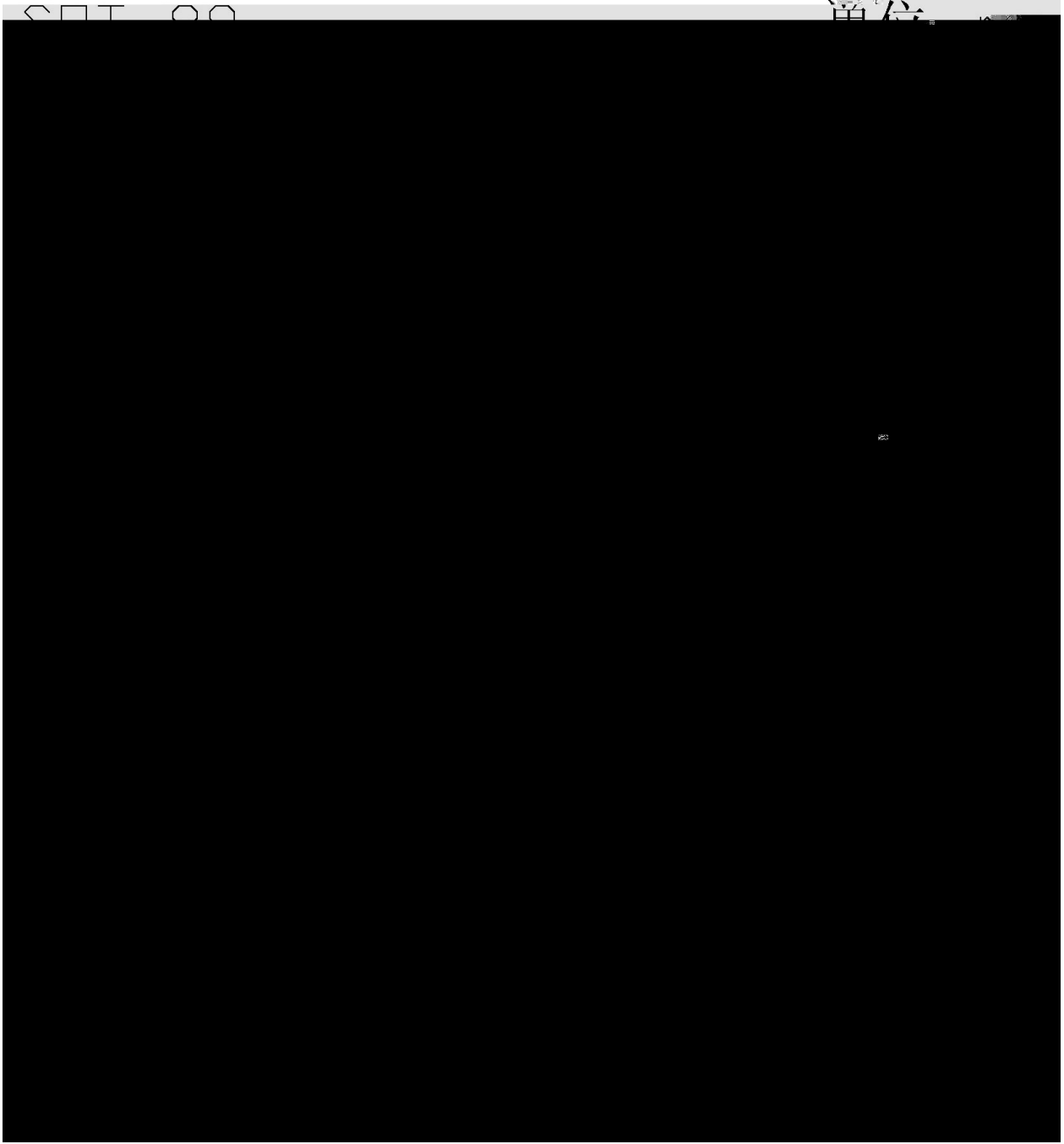
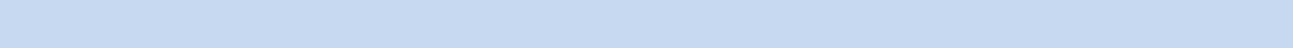
h_{FE} Classifications	O	Y
Symbol		
h_{FE} Range	70 140	120 240
Marking	HMO	HMY

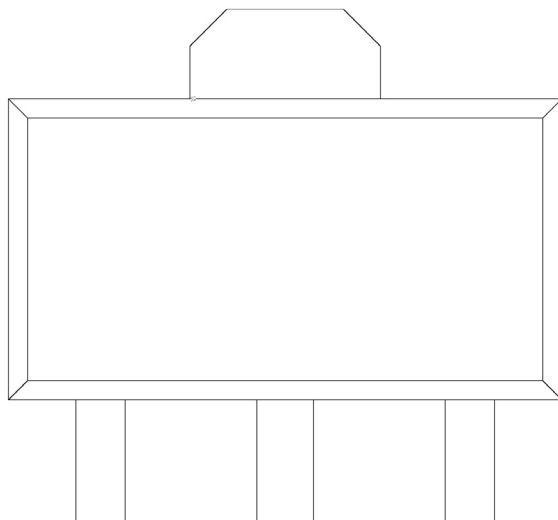
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	50	V
Collector to Emitter Voltage	V_{CEO}	50	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current-Continuous	I_C	2.0	A
Collector Base-Continuous	I_B	0.4	A
Collector Power Dissipation	P_C	500	mW
Collector Power Dissipation*	* $P_C(T_a=25^\circ\text{C})$	1000	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

*BR2SC2873 mounted on ceramic substrate(250mm²×0.8t)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	$V_{CB}=50V$ $I_E=0$			0.1	A
Emitter Base Cut-Off Current	I_{EBO}	$V_{EB}=5.0V$ $I_C=0$			0.1	A
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=10mA$ $I_B=0$	50			V
DC Current Gain	$h_{FE(1)}$	$V_{CE}=2.0V$ $I_C=500mA$	70		240	
	$h_{FE(2)}$	$V_{CE}=2.0V$ $I_C=2.0A$	20			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=1.0A$ $I_B=0.05A$			0.5	V
Emitter to Base Saturation Voltage	V_{BE}	$I_C=1.0A$ $I_B=0.05A$			1.2	V
Transition Frequency	f_T	$V_{CE}=2.0V$ $I_C=500mA$		120		MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10V$ $I_E=0$ $f=1MHz$		30		50.0013







H

M

O

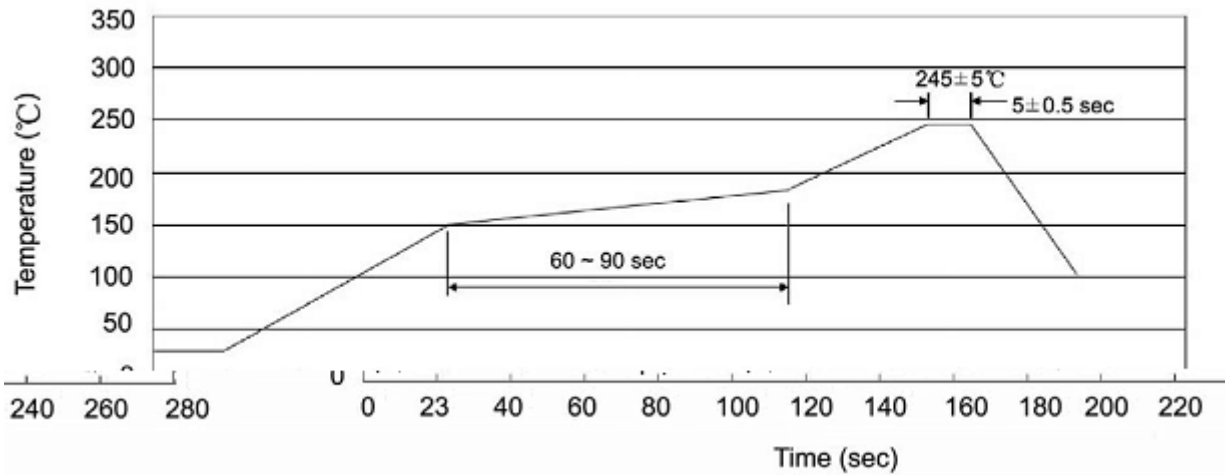
Note:

H: Company Code.

M: Product Type.

O h_{FE} Classifications Symbol

** : Lot No. Code, code change with Lot No.



Note:

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

260 5 10 1 sec. Temp.:260±5 Time:10±1 sec

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box	Outer Box
SOT-89	1,000	7	7,000	8	56,000	7 ×12	180×120×180	385×257×392