

### / Descriptions

TO-126F          PNP          Silicon PNP transistor in a TO-126F Plastic Package.

### / Features

$V_{CE(sat)}$  ,  $h_{FE}$   
Low saturation voltage, excellent  $h_{FE}$  linearity and high  $h_{FE}$ .

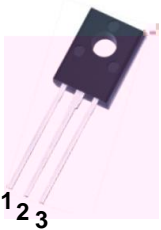
### / Applications

Power amplifier and switching applications.

### / Equivalent Circuit



### / Pinning



PIN1   Emitter          PIN 2   Collector          PIN 3   Base

### / $h_{FE}$ Classifications & Marking

See Marking Instructions.

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	$I_C$	-3.0	A
Peak Collector Current – Continuous	$I_{CM}$	-7.0	A
Base Current - Continuous	$I_B$	-0.6	A
Collector Power Dissipation	$P_C (T_C=25^\circ C)$	10	W
Collector Power Dissipation	$P_C$	1.0	W
Junction Temperature	$T_j$	150	
Storage Temperature Range	$T_{stg}$	-55 150	

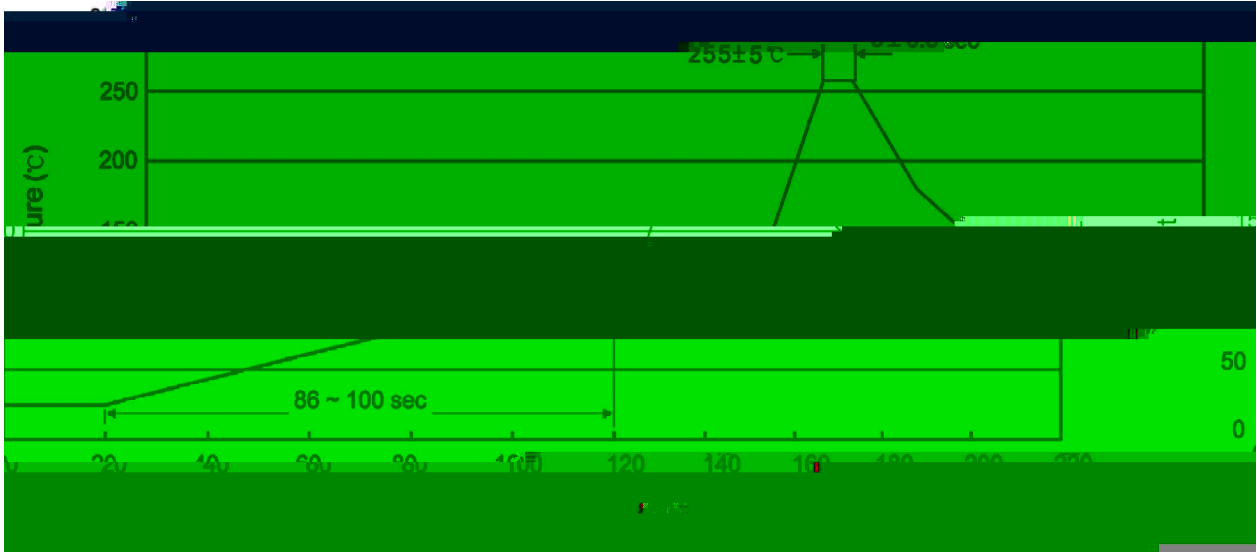
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	$V_{CBO}$	$I_C=-100\mu A$ $I_E=0$	-50			V
Collector to Emitter Breakdown Voltage	$V_{CEO}$	$I_C=-5mA$ $I_B=0$	-50			V
Emitter to Base Breakdown Voltage	$V_{EBO}$	$I_E=-100\mu A$ $I_C=0$	-5.0			V
Collector Cut-Off Current	$I_{CBO}$	$V_{CB}=-50V$ $I_E=0$			-1.0	$\mu A$
Emitter Cut-Off Current	$I_{EBO}$	$V_{EB}=-3.0V$ $I_C=0$			-1.0	$\mu A$
DC Current Gain	$h_{FE(1)}$	$V_{CE}=-2.0V$ $I_C=-1.0A$	100		400	
	$h_{FE(2)}$	$V_{CE}=-2.0V$ $I_C=-20mA$	100			
Collector to Emitter Saturation Voltage	V					







( ) / Temperature Profile for Dip Soldering(Pb-Free)



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

/ Resistance to Soldering Heat Test Conditions

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

/ Packaging SPEC.

/ BULK

Package Type	Units					Dimension (unit mm <sup>3</sup> )		

/ TUBE

Package Type	Units					Dimension (unit mm <sup>3</sup> )		