

Rev.C Aug.-2019

SOT-223

Rev.C Aug.-2019

Parameter	^N Symbol	Rating	^H Unit
Collector to Base Voltage	V_{CBO}	-180	V
Collector to Emitter Voltage	V_{CEO}	-140	V
Emitter to Base Voltage	V_{EBO}	-7.0	V
Collector Current - Continuous	I		

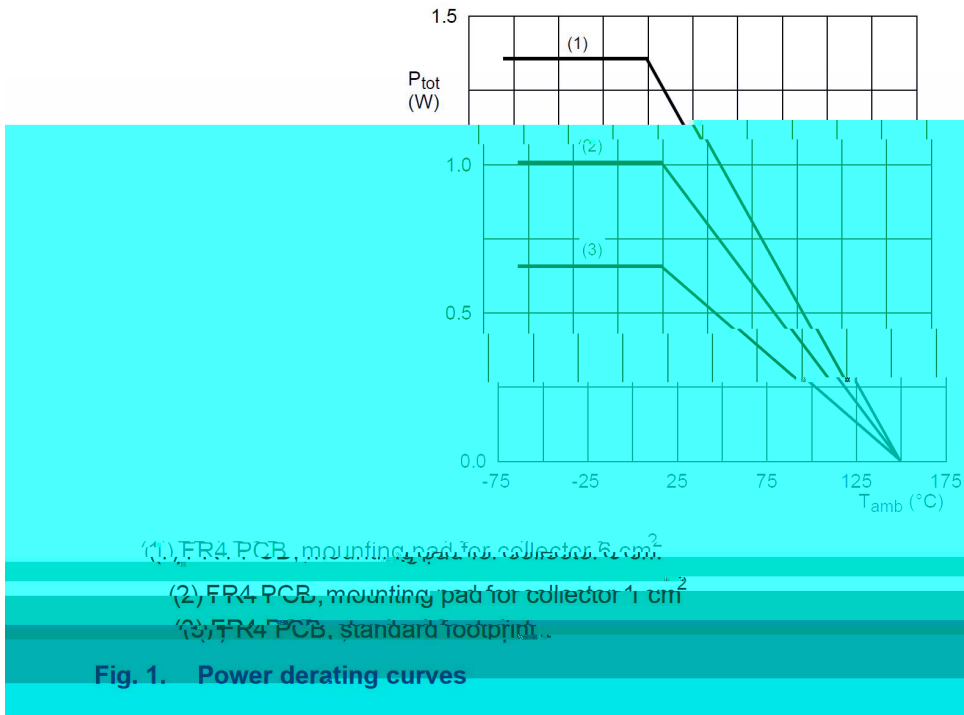
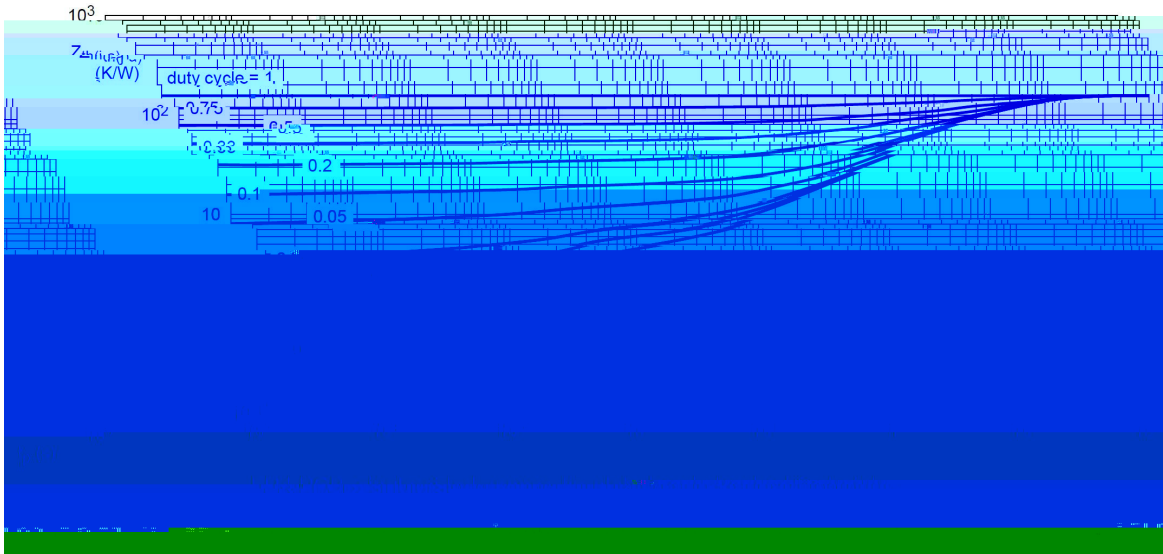
Rev.C Aug.-2019

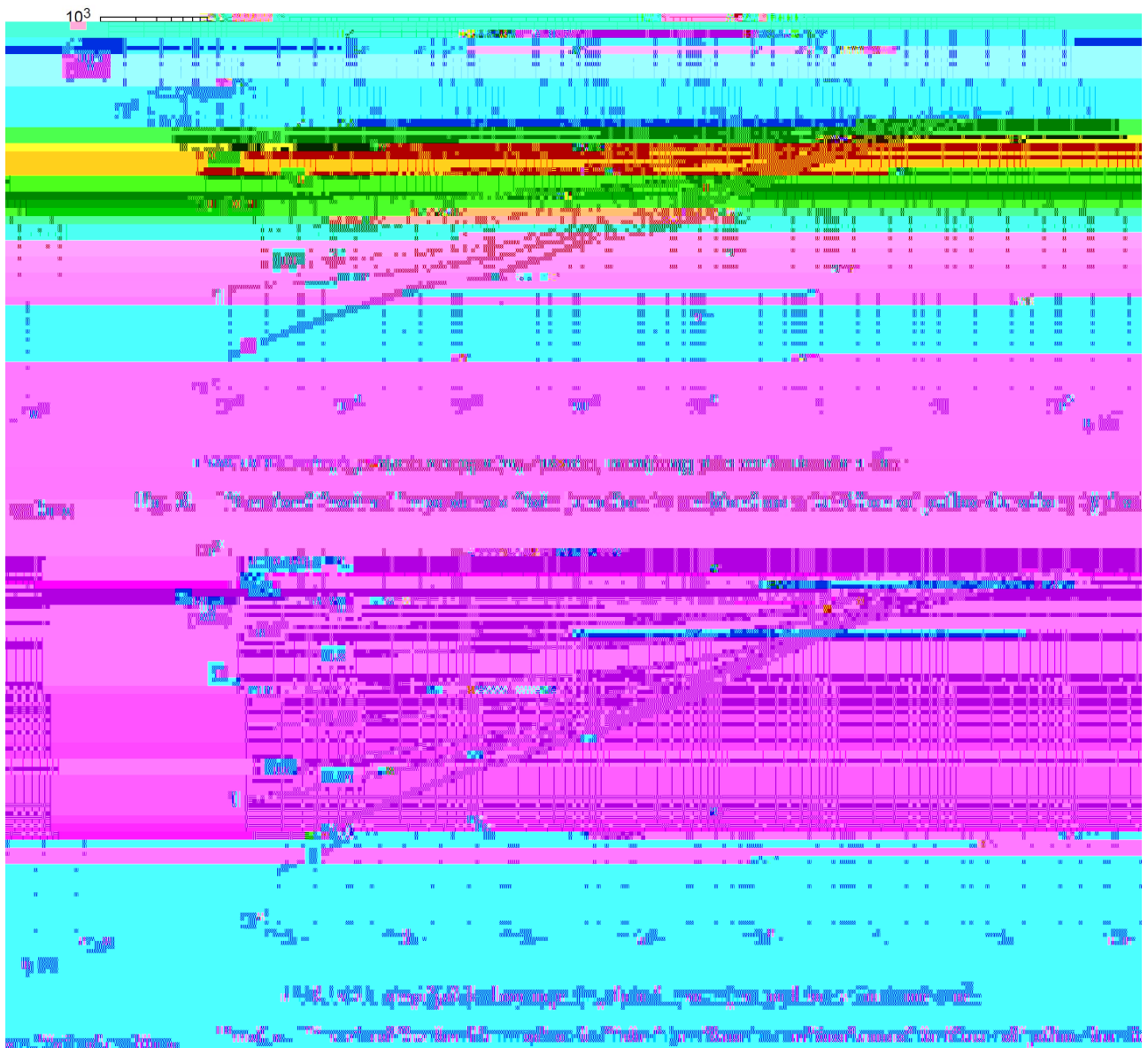
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	$V_{CB} = -150\text{ V}$ $I_E = 0\text{ A}$ $T_{amb} = 25\text{ }^{\circ}\text{C}$			-100	nA
		$V_{CB} = -150\text{ V}$ $I_E = 0\text{ A}$ $T_j = 150\text{ }^{\circ}\text{C}$			-50	uA
Collector-emitter cut-off current	I_{CES}	$V_{CE} = -115\text{ V}$ $V_{BE} = 0\text{ V}$ $T_{amb} = 25\text{ }^{\circ}\text{C}$			-100	nA
Emitter-base cut-off current	I_{EBO}	$V_{EB} = -6\text{ V}$ $I_C = 0\text{ A}$ $T_{amb} = 25\text{ }^{\circ}\text{C}$			-100	nA
DC Current Gain	$h_{FE(1)}$	$V_{CE} = -5.0\text{ V}$ $I_C = -10\text{ mA}$ $T_{amb} = 25\text{ }^{\circ}\text{C}$	100	160		
	$h_{FE(2)}$	$V_{CE} = -5\text{ V}$ $I_C = -1\text{ A}$ $t_p \leq 300\mu\text{s}$ $\delta \leq 0.02$ $T_{amb} = 25\text{ }^{\circ}\text{C}$	100	150	300	
	$h_{FE(3)}$	$V_{CE} = -5\text{ V}$ $I_C = -3\text{ A}$ $t_p \leq 300\mu\text{s}$ $\delta \leq 0.02$ $T_{amb} = 25\text{ }^{\circ}\text{C}$	75	100		
	$h_{FE(4)}$	$V_{CE} = -5\text{ V}$ $I_C = -4\text{ A}$ $t_p \leq 300\mu\text{s}$ $\delta \leq 0.02$ $T_{amb} = 25\text{ }^{\circ}\text{C}$	35	50		

 1. $T_{amb} = 25\text{ }^{\circ}\text{C}$ (Collector) $T_j = 120\text{ }^{\circ}\text{C}$ $T_j = 150\text{ }^{\circ}\text{C}$ $T_j = 175\text{ }^{\circ}\text{C}$ $T_j = 200\text{ }^{\circ}\text{C}$ $T_j = 225\text{ }^{\circ}\text{C}$ $T_j = 250\text{ }^{\circ}\text{C}$ $T_j = 275\text{ }^{\circ}\text{C}$ $T_j = 300\text{ }^{\circ}\text{C}$ $T_j = 325\text{ }^{\circ}\text{C}$ $T_j = 350\text{ }^{\circ}\text{C}$ $T_j = 375\text{ }^{\circ}\text{C}$ $T_j = 400\text{ }^{\circ}\text{C}$ $T_j = 425\text{ }^{\circ}\text{C}$ $T_j = 450\text{ }^{\circ}\text{C}$ $T_j = 475\text{ }^{\circ}\text{C}$ $T_j = 500\text{ }^{\circ}\text{C}$ $T_j = 525\text{ }^{\circ}\text{C}$ $T_j = 550\text{ }^{\circ}\text{C}$ $T_j = 575\text{ }^{\circ}\text{C}$ $T_j = 600\text{ }^{\circ}\text{C}$ $T_j = 625\text{ }^{\circ}\text{C}$ $T_j = 650\text{ }^{\circ}\text{C}$ $T_j = 675\text{ }^{\circ}\text{C}$ $T_j = 700\text{ }^{\circ}\text{C}$ $T_j = 725\text{ }^{\circ}\text{C}$ $T_j = 750\text{ }^{\circ}\text{C}$ $T_j = 775\text{ }^{\circ}\text{C}$ $T_j = 800\text{ }^{\circ}\text{C}$ $T_j = 825\text{ }^{\circ}\text{C}$ $T_j = 850\text{ }^{\circ}\text{C}$ $T_j = 875\text{ }^{\circ}\text{C}$ $T_j = 900\text{ }^{\circ}\text{C}$ $T_j = 925\text{ }^{\circ}\text{C}$ $T_j = 950\text{ }^{\circ}\text{C}$ $T_j = 975\text{ }^{\circ}\text{C}$ $T_j = 1000\text{ }^{\circ}\text{C}$

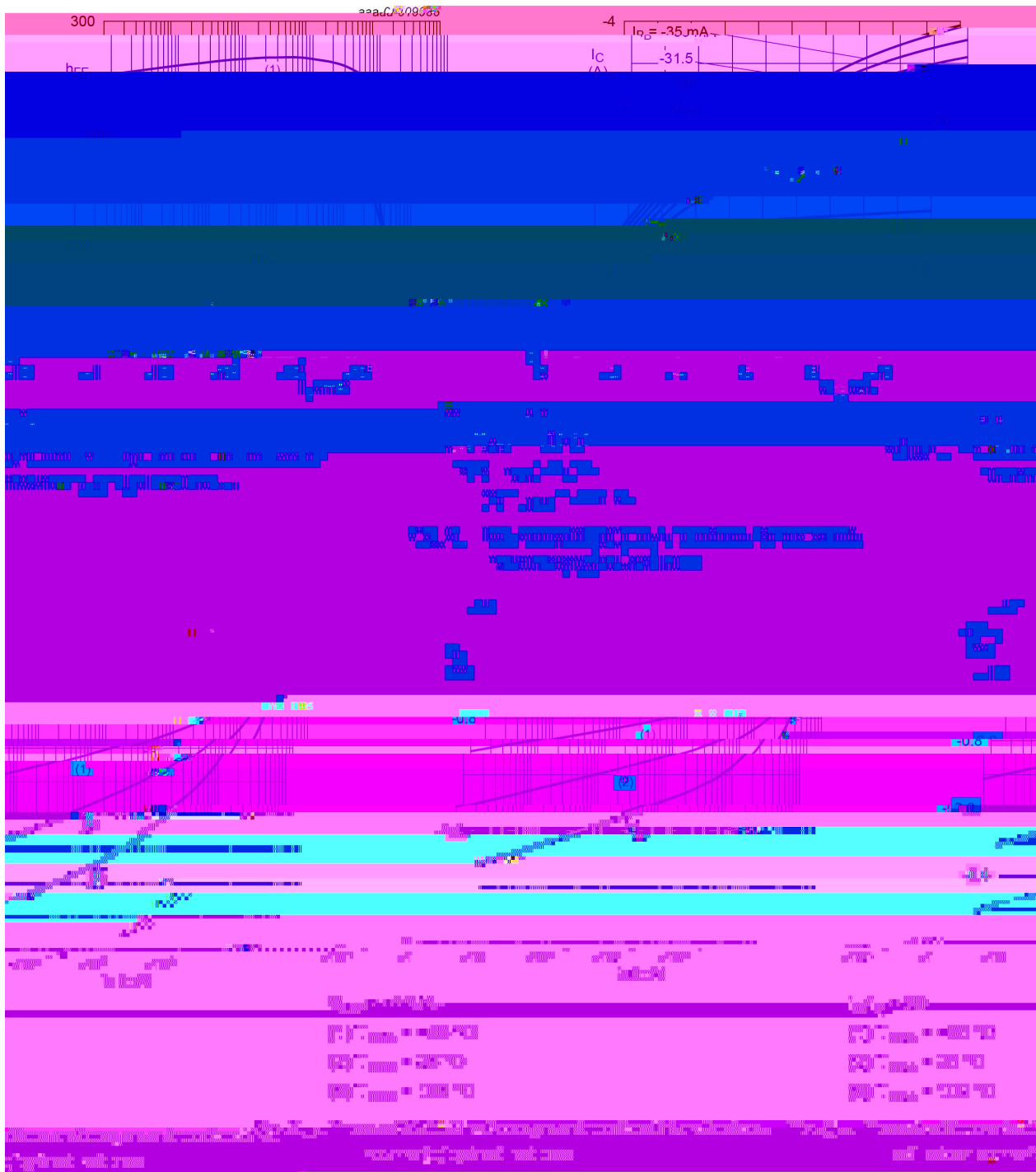
Collector to Emitter Saturation Voltage

 $V_{CE(sat)}$



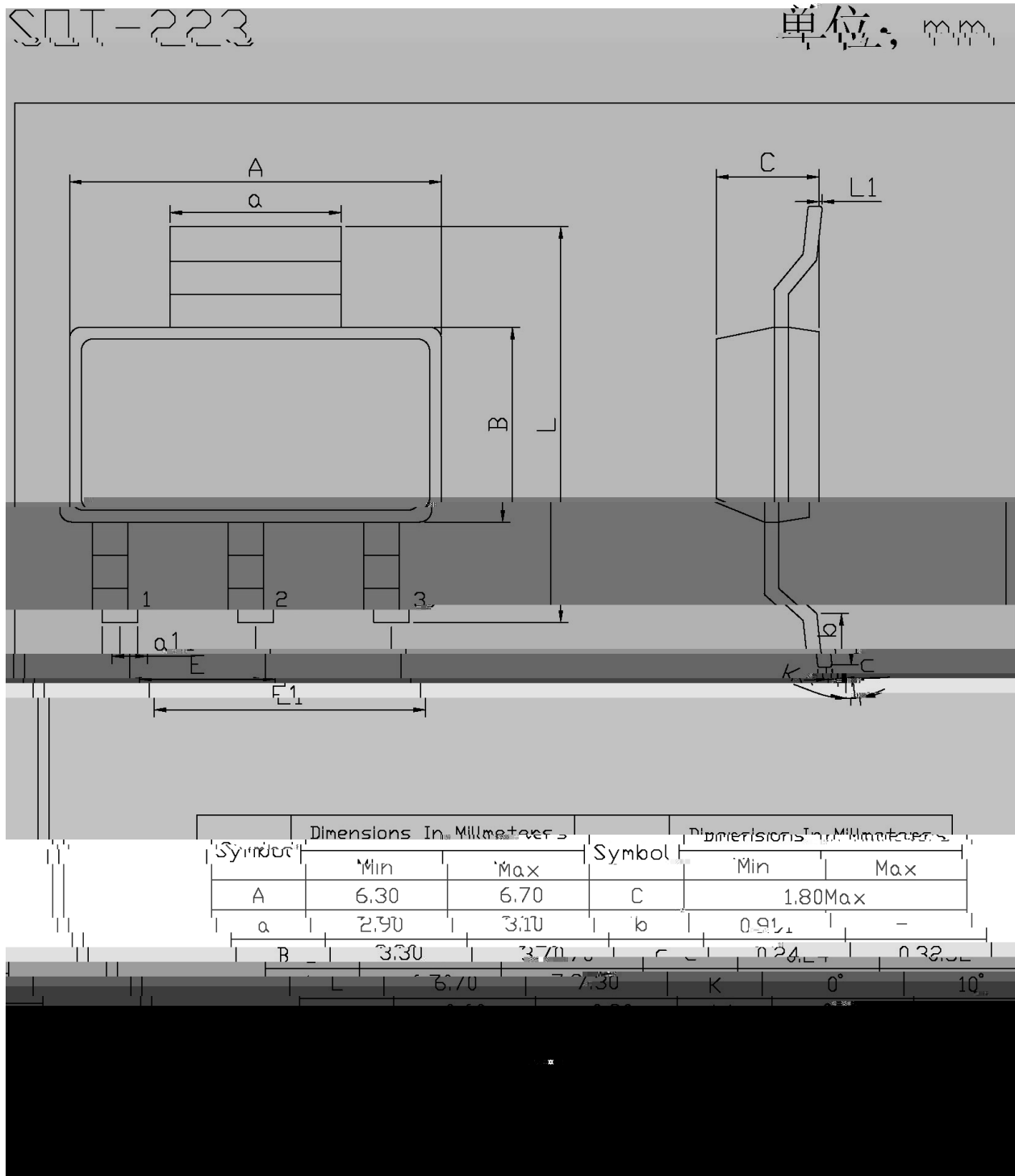


Rev.C Aug.-2019



Rev.C Aug.-2019

Rev.C Aug.-2019





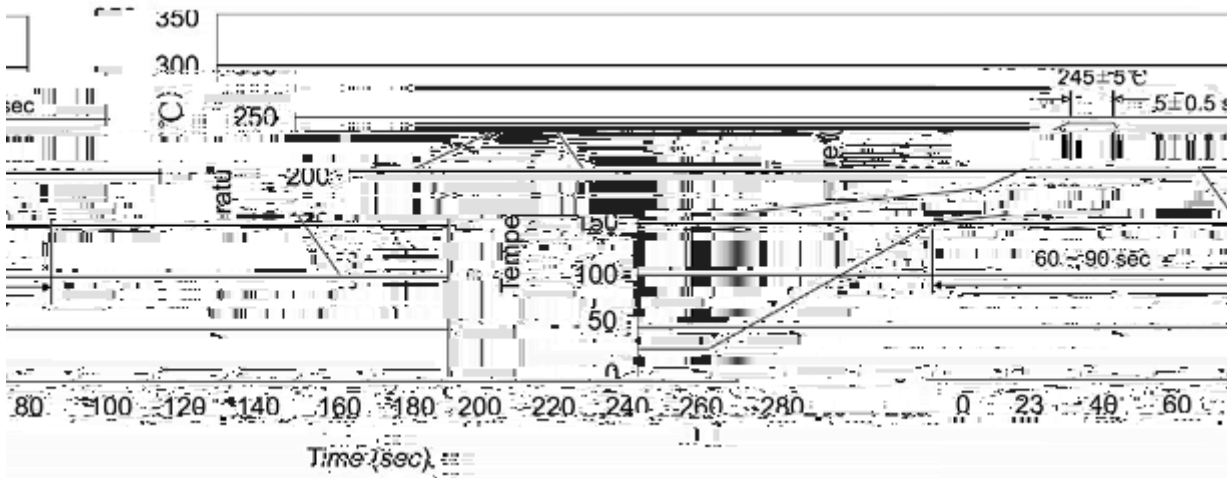
٢	χ				
BR	χ	И			
<747	χ	N			
****	χ	N	⌘	N	

Note:

BR:	Company Code.
9414:	Product Type.
****:	Lot No. Code, code change with Lot No.

Rev.C Aug.-2019

Temperature Profile for IR Reflow Soldering(Pb-Free)



1. 25~150 , Time: 60~90sec;
 2. 245±5 , Duration: 5±0.5sec;
 3. 2~10 /sec.

Note:

1. Preheating: 25~150 , Time: 60~90sec.
 2. Peak Temp.: 245±5 , Duration: 5±0.5sec.
 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)