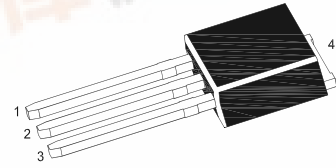


ST 13003Z

查询"13003Z"供应商

NPN Silicon Epitaxial Planar Transistor

for power switching applications



1.Base 2.Collector 3.Emitter 4.Collector
TO-251 Plastic Package

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Collector Base Voltage	V_{CBO}	700	V
Collector Emitter Voltage	V_{CEO}	450	V
Emitter Base Voltage	V_{EBO}	9	V
Collector Current	I_C	1.3	A
Collector Power Dissipation $T_a = 25^\circ\text{C}$ $T_c = 25^\circ\text{C}$	P_{tot}	2 50	W
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_s	- 55 to + 150	$^\circ\text{C}$

Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit
DC Current Gain at $V_{CE} = 5\text{ V}$, $I_C = 200\text{ mA}$	h_{FE}	15	30	-
Collector Base Cutoff Current at $V_{CB} = 690\text{ V}$	I_{CBO}	-	20	μA
Collector Emitter Cutoff Current at $V_{CE} = 440\text{ V}$	I_{CEO}	-	20	μA
Emitter Base Cutoff Current at $V_{EB} = 9\text{ V}$	I_{EBO}	-	20	μA
Collector Base Breakdown Voltage at $I_C = 1\text{ mA}$	$V_{(BR)CBO}$	700	-	V
Collector Emitter Breakdown Voltage at $I_C = 10\text{ mA}$	$V_{(BR)CEO}$	450	-	V
Emitter Base Breakdown Voltage at $I_E = 1\text{ mA}$	$V_{(BR)EBO}$	9	-	V
Collector Emitter Saturation Voltage at $I_C = 500\text{ mA}$, $I_B = 100\text{ mA}$	$V_{CE(sat)}$	-	0.7	V
Base Emitter Saturation Voltage at $I_C = 500\text{ mA}$, $I_B = 100\text{ mA}$	$V_{BE(sat)}$	-	1.2	V
Transition Frequency at $V_{CE} = 10\text{ V}$, $I_C = 50\text{ mA}$, $f = 1\text{ MHz}$	f_T	5	-	MHz
Fall Time at $I_C = 0.25\text{ A}$, $I_{B1} = I_{B2} = 0.05\text{ A}$	t_f	-	0.6	μs
Storage Time at $I_C = 0.25\text{ A}$, $I_{B1} = I_{B2} = 0.05\text{ A}$	t_s	-	4.5	μs

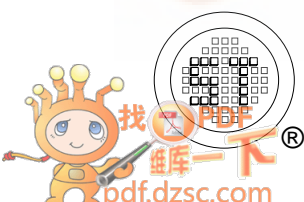
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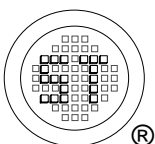
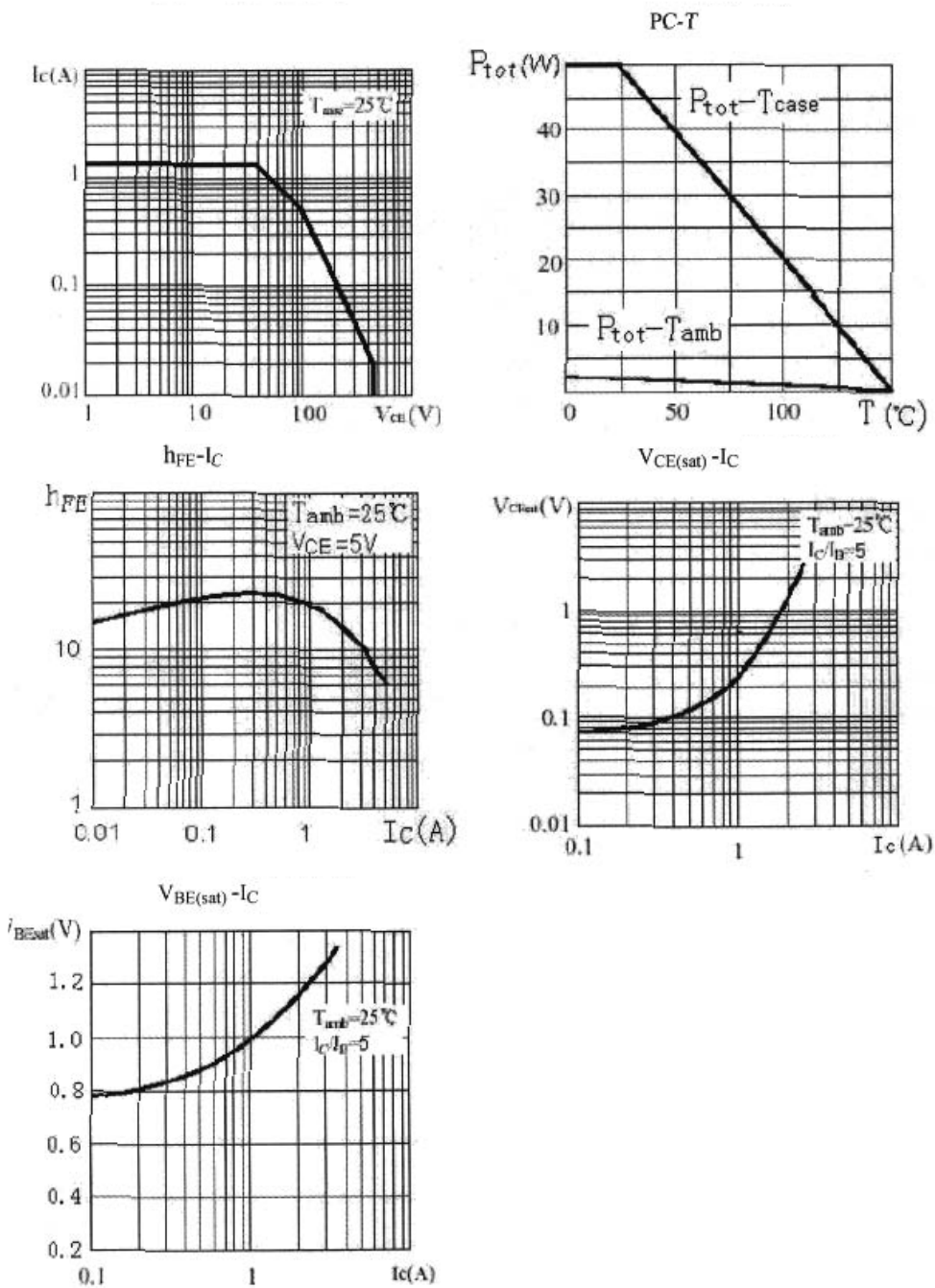
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ISO/TS 16949 : 2002 Certificate No. 05103
ISO 14001:2004 Certificate No. 7116
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Dated : 27/09/2007

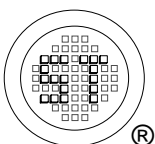
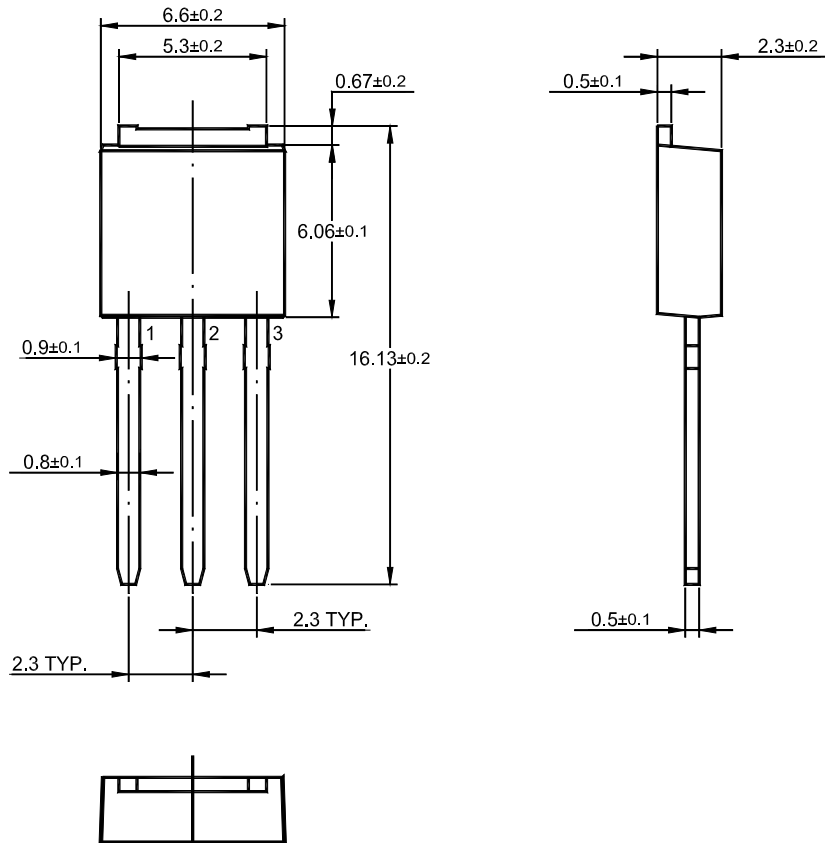




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TO-251 PACKAGE OUTLINE



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Dated : 27/09/2007