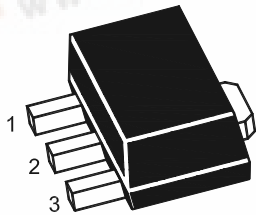


ST 2SC4375U

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NPN Silicon Epitaxial Planar Transistor

High current application



1.Base 2.Collector 3.Emitter
SOT-89 Plastic Package

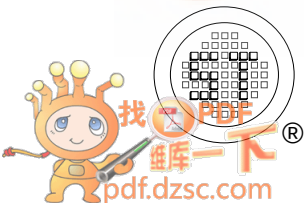
Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Collector Base Voltage	V _{CBO}	30	V
Collector Emitter Voltage	V _{CEO}	30	V
Emitter Base Voltage	V _{EBO}	5	V
Collector Current	I _C	1.5	A
Total Power Dissipation	P _{tot}	0.5 1 ¹⁾	W
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _S	- 55 to + 150	°C

¹⁾ When mounted on a 250 mm² X 0.8 t ceramic substrate.

Characteristics at T_a = 25 °C

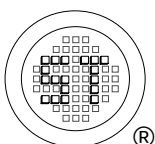
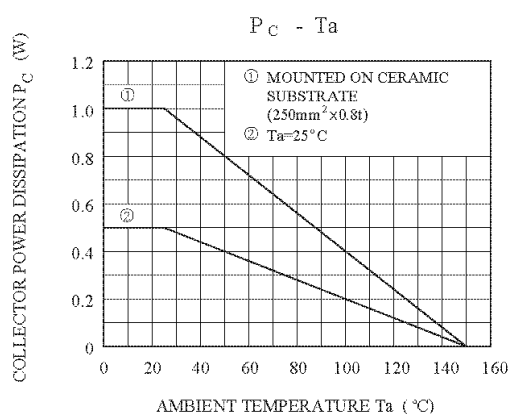
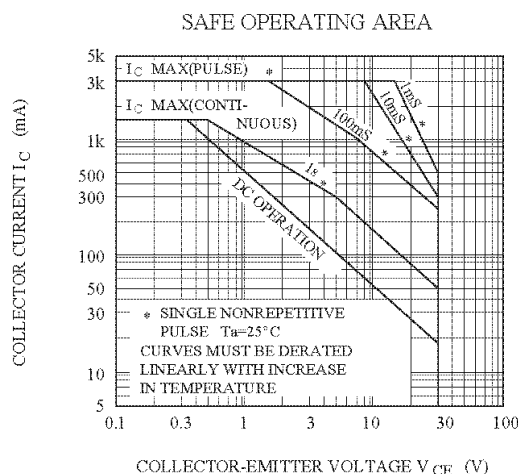
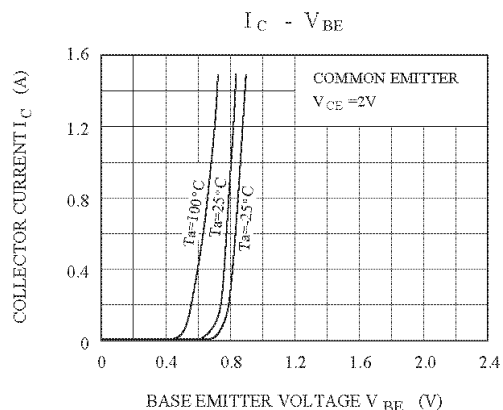
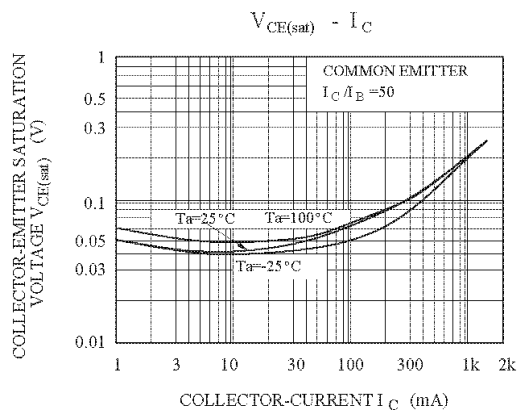
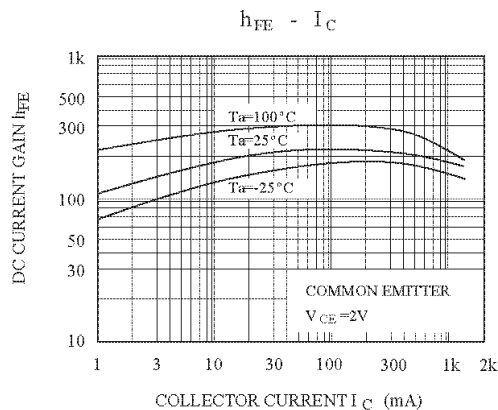
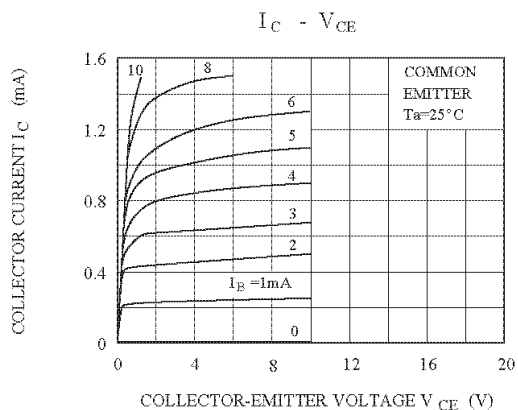
Parameter	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at V _{CE} = 2 V, I _C = 500 mA	h _{FE}	100	-	200	-
Current Gain Group	h _{FE}	160	-	320	-
Collector Base Breakdown Voltage at I _C = 1 mA	V _{(BR)CBO}	30	-	-	V
Collector Emitter Breakdown Voltage at I _C = 10 mA	V _{(BR)CEO}	30	-	-	V
Emitter Base Breakdown Voltage at I _E = 1 mA	V _{(BR)EBO}	5	-	-	V
Collector Cutoff Current at V _{CB} = 30 V	I _{CB0}	-	-	100	nA
Emitter Cutoff Current at V _{EB} = 5 V	I _{EBO}	-	-	100	nA
Collector Emitter Saturation Voltage at I _C = 1.5 A, I _B = 30 mA	V _{CE(sat)}	-	-	2	V
Base Emitter Voltage at V _{CE} = 2 V, I _C = 500 mA	V _{BE}	-	-	1	V
Transition Frequency at V _{CE} = 2 V, I _C = 500 mA	f _T	-	120	-	MHz
Collector Output Capacitance at V _{CB} = 10 V, f = 1 MHz	C _{ob}	-	-	40	pF



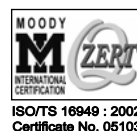
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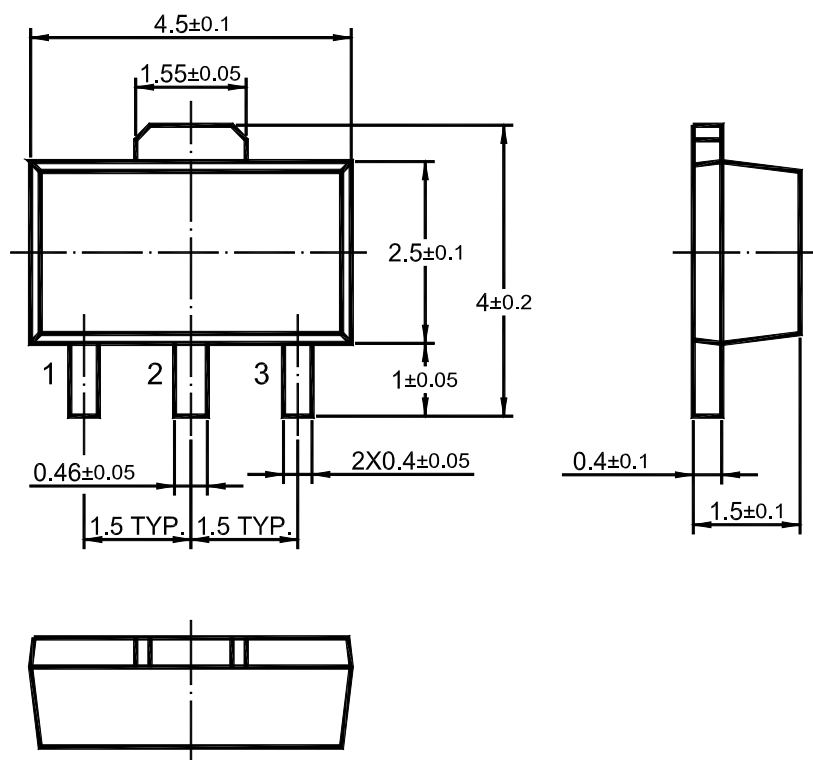
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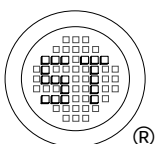
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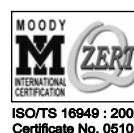
SOT-89 PACKAGE OUTLINE



Dimensions in mm



SEMTECH ELECTRONICS LTD.
(Subsidiary of Sino-Tech International Holdings Limited, a company
listed on the Hong Kong Stock Exchange, Stock Code: 724)



Dated : 17/04/2007