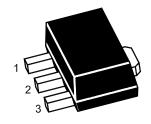
PNP Epitaxial Planar Transistor

High Current Application

The transistor is subdivided into two groups, O and Y, according to its DC current gain.



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}	35	V
Collector Emitter Voltage	-V _{CEO}	30	V
Emitter Base Voltage	-V _{EBO}	5	V
Collector Current	-I _C	800	mA
Base Current	-I _B	160	mA
Collector Power Dissipation	P _{tot}	500	mW
Junction Temperature	T _j	150	°C
Storage Temperature Range	Ts	-55 to +150	°C

Characteristics at T_{amb} = 25 °C

Parameter	Symbol	Min.	Тур.	Max.	Unit
DC Current Gain					
at -V _{CE} = 1 V, -I _C = 100 mA O	h _{FE}	100	-	200	-
Y	h _{FE}	160	-	320	-
at $-V_{CE} = 1 \text{ V}, -I_{C} = 700 \text{ mA}$	h _{FE}	35	-	-	-
Collector Cutoff Current at -V _{CB} = 35 V	-I _{CBO}	-	-	100	nA
Emitter Cutoff Current at -V _{EB} = 5 V	-I _{EBO}	-	-	100	nA
Collector Emitter Breakdown Voltage at -I _C = 10 mA	-V _{(BR)CEO}	30	-	-	V
Base Emitter Voltage at -V _{CE} = 1 V, -I _C = 10 mA	-V _{BE}	0.5	-	0.8	V
Collector Output Capacitance at -V _{CB} = 10 V, f = 1 MHz	$C_{\sf ob}$	-	19	-	pF
Collector Emitter Saturation Voltage at -I _C = 500 mA, -I _B = 20 mA	-V _{CE(sat)}	-	-	0.7	V
Transition Frequency at $-V_{CE} = 5 \text{ V}$, $-I_C = 10 \text{ mA}$	f _T	-	120	-	MHz



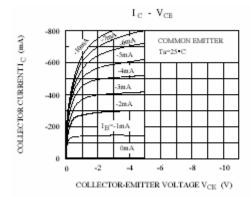


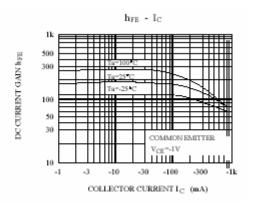


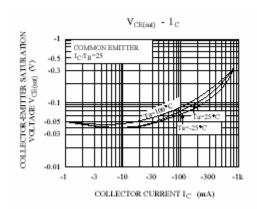


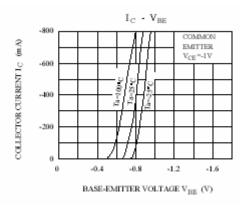
SEMTECH ELECTRONICS LTD.(Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)

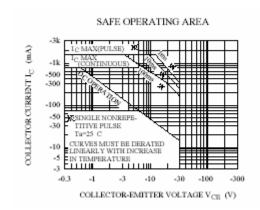
| 1014 | 1014 | 1014 | 1014 | 1014 | 1014 | 1014 | 1014 | 10150/TS 16949 : 2002 | ISO 14001:2004 | ISO 9001:2000 | Certificate No. 05103 | Certificate No. 7116 | Certificate No. 0506098

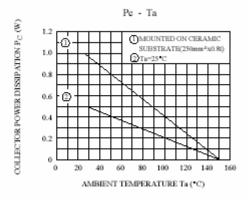














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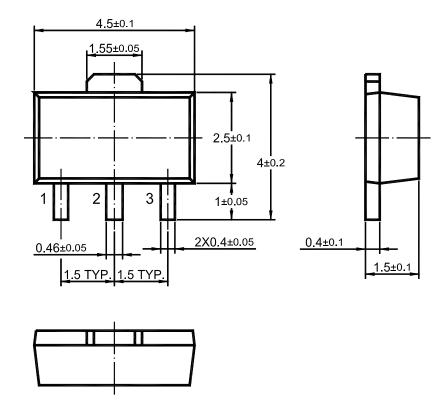




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SOT-89 PACKAGE OUTLINE



Dimensions in mm







