

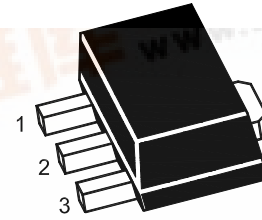
ST 2SA1664U

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

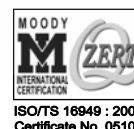
Parameter	Symbol	Value	Unit
Collector Base Voltage	$-V_{\text{CBO}}$	35	V
Collector Emitter Voltage	$-V_{\text{CEO}}$	30	V
Emitter Base Voltage	$-V_{\text{EBO}}$	5	V
Collector Current	$-I_{\text{C}}$	800	mA
Base Current	$-I_{\text{B}}$	160	mA
Collector Power Dissipation	P_{tot}	500	mW
Junction Temperature	T_{j}	150	$^\circ\text{C}$
Storage Temperature Range	T_{s}	-55 to +150	$^\circ\text{C}$

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

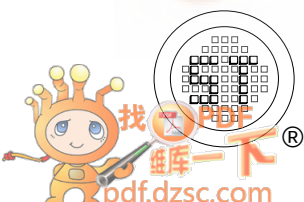
Parameter	Symbol	Min.	Typ.	Max.	Unit	
DC Current Gain						
at $-V_{\text{CE}} = 1\text{ V}$, $-I_{\text{C}} = 100\text{ mA}$	O	h_{FE}	100	-	200	-
	Y	h_{FE}	160	-	320	-
at $-V_{\text{CE}} = 1\text{ V}$, $-I_{\text{C}} = 700\text{ mA}$		h_{FE}	35	-	-	-
Collector Cutoff Current at $-V_{\text{CB}} = 35\text{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

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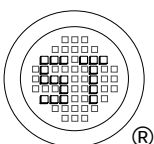
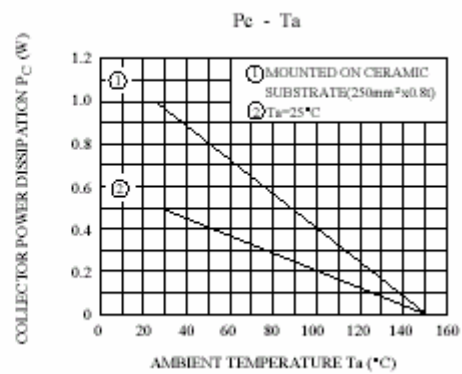
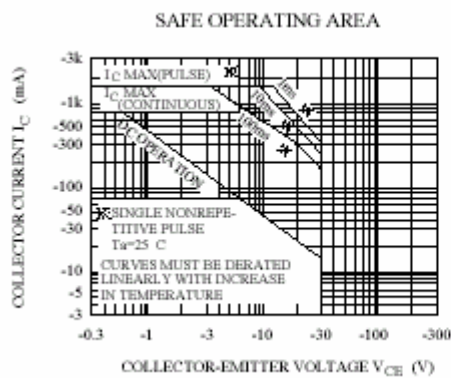
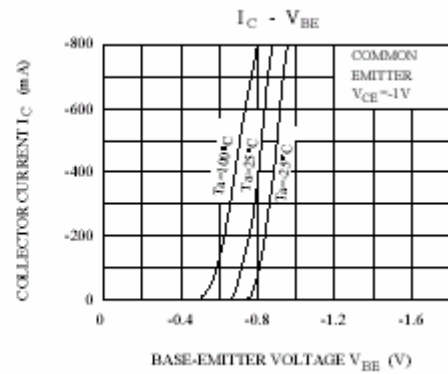
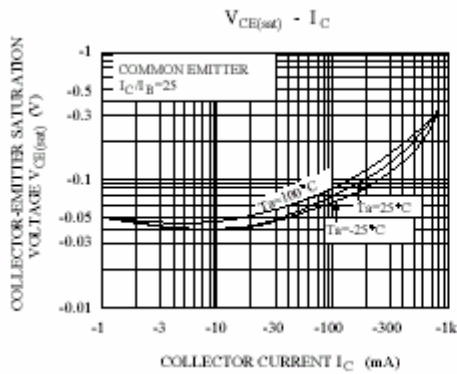
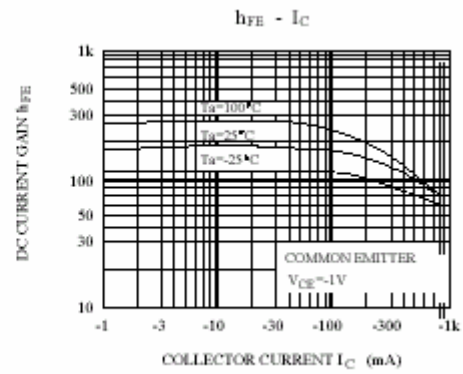
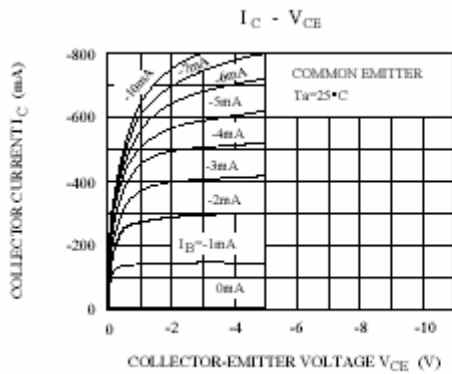


Dated : 22/03/2006



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ISO/TS 16949 : 2002
Certificate No. 05103



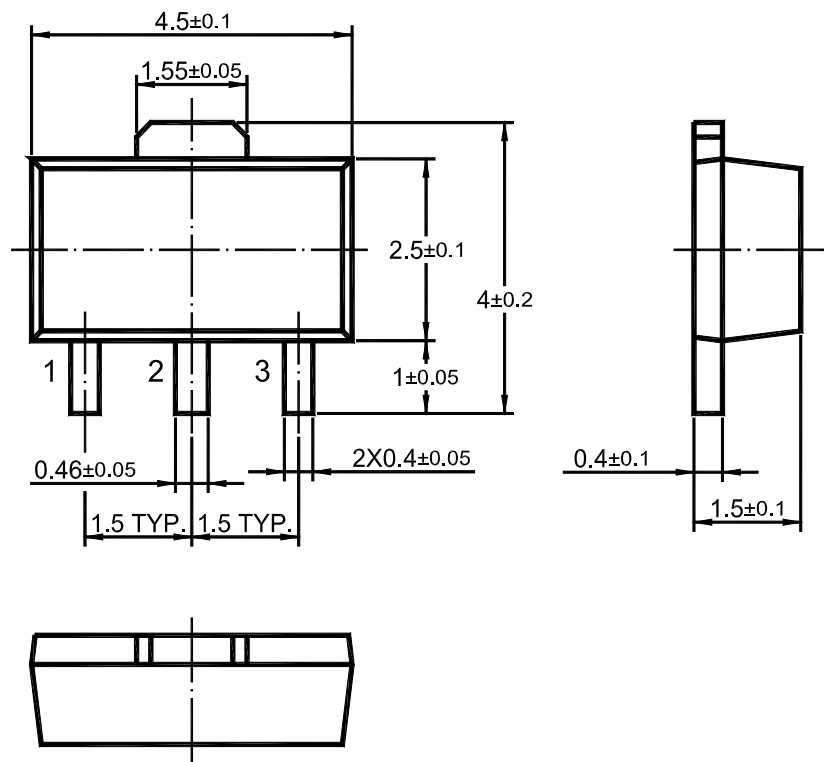
ISO 14001:2004
Certificate No. 7116



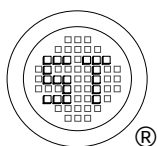
ISO 9001:2000
Certificate No. 0506098

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SOT-89 PACKAGE OUTLINE



Dimensions in mm



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