

Micro Commercial Components



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Features

- Halogen free available upon request by adding suffix "-HF" Complements to 2SB1132
- Low collector-to-emitter saturation voltage.
- Fast switching speed.
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant ("P"Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings

Symbol	Rating	Rating	Unit
V _{CEO}	Collector-Emitter Voltage	32	V
V _{CBO}	Collector-Base Voltage	40	V
V _{EBO}	Emitter-Base Voltage	5.0	V
Ь	Collector Current	1.0	А
Pc	Collector dissipation	500	mW
TJ	Junction Temperature	-55 to +150	°C
T _{STG}	Storage Temperature	-55 to +150	°C

Bectrical Characteristics @ 25°C Unless Otherwise Specified Min Typ Max Units Symbol Parameter

Symbol	Parameter		тур	Max	Units
OFFCHARACTERISTICS					
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _c =50uAdc, I _E =0)	40			Vdc
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (t=1.0mAdc)	32			Vdc
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage (E=50uAdc, Ic=0)	5.0			Vdc
І _{сво}	Collector Cutoff Current (V _{CB} =20Vdc,I _E =0)			0.5	uAdc
I _{ebo}	Emitter Cutoff Current (V _{EB} =4.0Vdc, I _C =0)			0.5	mAdc

ON CHARACTERISTICS

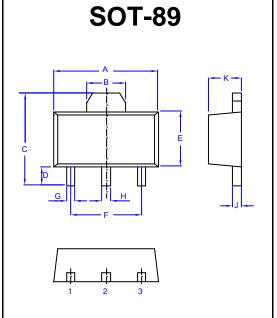
h _{FE-1}	DC Current Gain (t _c =100mAdc, V _{cc} =3.0Vdc)	82		390	
$V_{\text{CE(sat)}}$	Collector-Emitter Saturation Voltage (ξ =0.5Adc, ξ =50mAdc)			0.4	Vdc
f _T	Gain-Bandwidth product (V _{CE} =5V, I _C =50mA, f=100MHz)		150		MHz
Cob	Out Capacitance (V _{CB} =10V, f=1.0MHz,IE=0)		15		pF

hFE1] CLASSIFICATION

Rank	Р	Q	R
Range	82-180	120-270	180-390
Marking	DAP	DAQ	DAR

NPN Epitaxial Planar Silicon Transistors

2SD1664







3. Emitter

DIM	INCHES MM		INCHES		INCHES MM		NOTES
	MIN	MAX	MIN	MAX	1		
А	.173	.181	4.39	4.60			
В	.061		1.55		REF.		
С	.154	.165	3.91	4.25			
D	.031	.039	0.80	1.00			
E	.092	.100	2.34	2.54			
F	.118		3.00		TYP		
G	.013	.019	0.33	0.48			
Н	.015	.021	0.38	0.53			
J	.015	.016	0.38	0.41			
К	.055	.063	1.40	1.60			

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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel 1 Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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Revision: B