

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth

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2SD1664

Features

- 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
lc	Collector Current	1.0	А
P_{C}	Collector dissipation	500	mW
TJ	Junction Temperature	-55 to +150	°C
T_{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol | Parameter | Min | Tyn | Max | Units

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OFF CHARACTERISTICS					
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _C =50uAdc, I _E =0)	40			Vdc
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (b=1.0mAdc)	32	-		Vdc
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage (=50uAdc, lc=0)	5.0	-		Vdc
Сво	Collector Cutoff Current $(V_{CB}=20Vdc, I_E=0)$		-	0.5	uAdc
l _{EBO}	Emitter Cutoff Current (V _{EB} =4.0Vdc, I _C =0)		-	0.5	mAdc

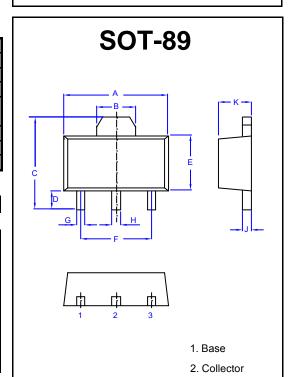
ON CHARACTERISTICS

h _{FE-1}	DC Current Gain ($_{\mbox{\scriptsize L}}$ =100mAdc, $_{\mbox{\scriptsize V}_{\mbox{\scriptsize CE}}}$ =3.0Vdc)	82	-	390	1
$V_{\text{CE(sat)}}$	Collector-Emitter Saturation Voltage (է=0.5Adc, ե=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,I _E =0)		15		pF

hFE[1] CLASSIFICATION

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

NPN Epitaxial Planar Silicon Transistors



	DIMENSINS				
DIM	INCHES		MM		NOTES
	MIN	MAX	MIN	MAX	
Α	.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	
K	.055	.063	1.40	1.60	

3. Emitter



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Ordering Information:

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

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