



Micro Commercial Components



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2SA1832-Y 2SA1832-GR

PNP Silicon Epitaxial Transistor

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Small Package
- Mounting: any position
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings @ $T_a = 25^\circ\text{C}$ (unless otherwise noted)

Symbol	Parameter	Value	Unit
I_C	Collector Current	-0.15	A
P_D	Total Device Dissipation	100	mW
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{STG}	Storage Temperature Range	-55 to +150	$^\circ\text{C}$

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARACTERISTICS				
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_C = -1\text{mA dc}, I_E = 0$)	-50		V
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C = -100\mu\text{A dc}, I_E = 0$)	-50		V
$V_{(BR)EBO}$	Collector-Base Breakdown Voltage ($I_E = -100\mu\text{A dc}, I_C = 0$)	-5.0		V
I_{CBO}	Collector-Base Cutoff Current ($V_{CB} = -5.0\text{V dc}, I_E = 0$)		-0.1	$\mu\text{A dc}$
I_{EBO}	Emitter-Base Cutoff Current ($V_{EB} = -5.0\text{V dc}, I_C = 0$)		-0.1	$\mu\text{A dc}$

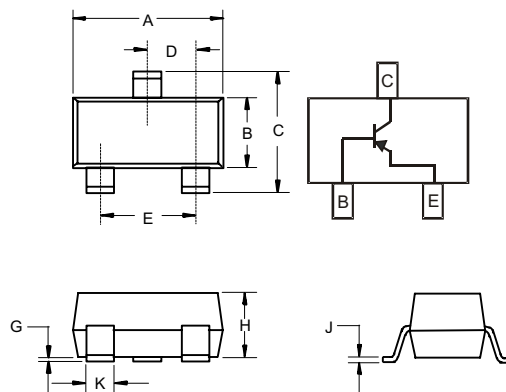
ON CHARACTERISTICS

h_{FE}	DC Current Gain ($I_C = -1.0\text{mA dc}, V_{CE} = -6.0\text{V dc}$)	120	400	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C = -100\text{mA dc}, I_E = -10\text{mA dc}$)		-0.3	Vdc
F_T	Transition Frequency ($V_{CE} = -10\text{V dc}, I_C = -1\text{mA dc}$)	80		MHZ
C_{ob}	Collector Output Capacitance ($V_{CB} = -10\text{V dc}, I_E = 0\text{A dc}, f = 1\text{MHZ}$)		7	PF

CLASSIFICATION OF h_{FE}

Rank	Y	GR
Range	120-240	200-400
Marking	SY	SG

SOT-523



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.059	.067	1.50	1.70	
B	.030	.033	0.75	0.85	
C	.057	.069	1.45	1.75	
D	.020 Nominal		0.50 Nominal		
E	.035	.043	0.90	1.10	
G	.000	.004	.000	.100	
H	.028	.031	.70	0.80	
J	.004	.008	.100	.200	
K	.010	.014	.25	.35	



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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel; 3Kpcs/Reel

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

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