



Micro Commercial Components

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KSA928A-O

KSA928A-Y

Features

- Collector Power Dissipation: $P_C=1W$
- 3 Watt Output Application
- Complement to KSC2328A
- Marking: KSA928A
- Case Material:Molded Plastic. UL Flammability Classificatio Rating 94-0 and MSL Rating 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	30	V
V_{CBO}	Collector-Base Voltage	30	V
V_{EBO}	Emitter-Base Voltage	5.0	V
I_C	Collector Current	2.0	A
P_C	Collector power dissipation	1.0	W
T_J	Junction Temperature	-55 to +150	$^{\circ}C$
T_{STG}	Storage Temperature	-55 to +150	$^{\circ}C$

Electrical Characteristics @ 25 $^{\circ}C$ Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
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OFF CHARACTERISTICS

BV_{CBO}	Collector-Base Breakdown Voltage ($I_C=100\mu A$, $I_E=0$)	30	---	---	Vdc
BV_{CEO}	Collector-Emitter Breakdown Voltage ($I_C=10mA$, $I_B=0$)	30	---	---	Vdc
BV_{EBO}	Emitter-Base Breakdown Voltage ($I_E=1.0mA$, $I_C=0$)	5.0	---	---	Vdc
I_{CBO}	Collector Cutoff Current ($V_{CB}=30V$, $I_E=0$)	---	---	100	nAdc
I_{EBO}	Emitter Cutoff Current ($V_{EB}=5.0V$, $I_C=0$)	---	---	100	nAdc

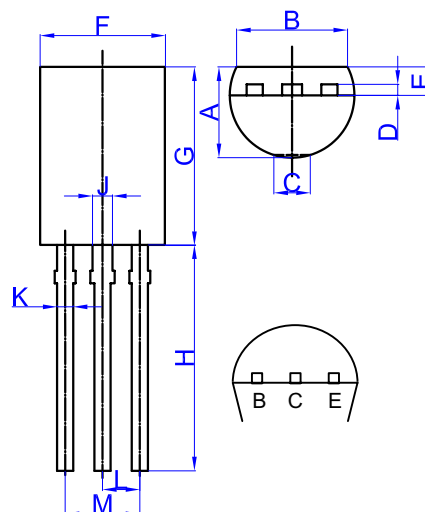
ON CHARACTERISTICS

h_{FE}	DC Current gain ($I_C=500mA$, $V_{CE}=2.0V$)	100	---	320	---
$V_{BE(on)}$	Base-Emitter On Voltage ($V_{CE}=2.0V$, $I_C=500mA$)	---	---	1.0	Vdc
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=1.5A$, $I_B=30mA$)	---	---	2.0	Vdc
f_T	Current Gain Bandwidth Product ($V_{CE}=2.0V$, $I_C=500mA$)	---	120	---	MHz
C_{ob}	Output Capacitance ($V_{CB}=10V$, $I_E=0$, $f=1.0MHz$)	---	48	---	pF

(1) h_{FE} Classification O: 100~200, Y: 160~320

PNP Epitaxial Silicon Transistor

TO-92L



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	3.700	4.100	.146	.161	
B	4.000	---	.157	---	
C	0.000	0.300	0.000	0.012	
D	0.350	0.450	.014	.018	
E	1.280	1.580	.050	.062	
F	4.700	5.100	.185	.201	
G	7.800	8.200	.307	.323	
H	13.80	14.20	.543	.569	
J	.600	.800	.024	.031	
K	0.350	.550	.014	.022	
L	1.270		.050		
M	2.440	2.640	.096	.104	

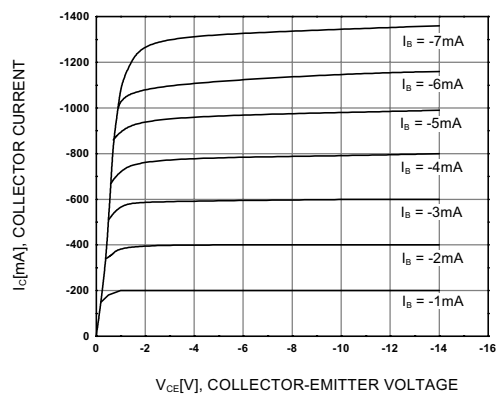


Figure 1. Static Characteristic

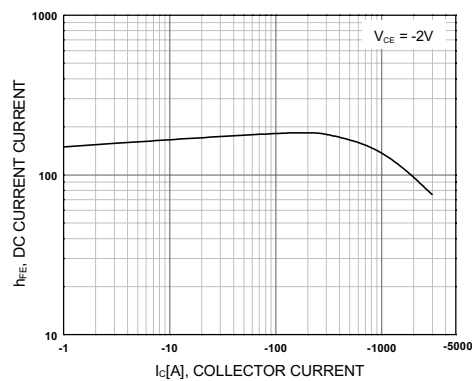


Figure 2. DC current Gain

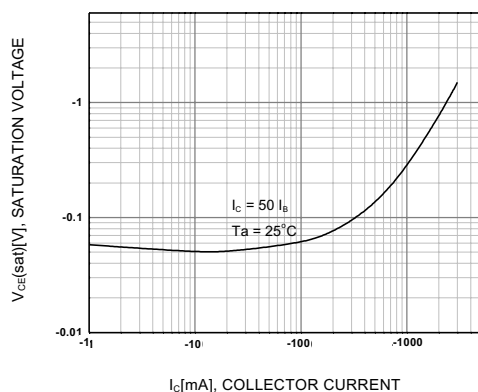


Figure 3. Collector-Emitter Saturation Voltage

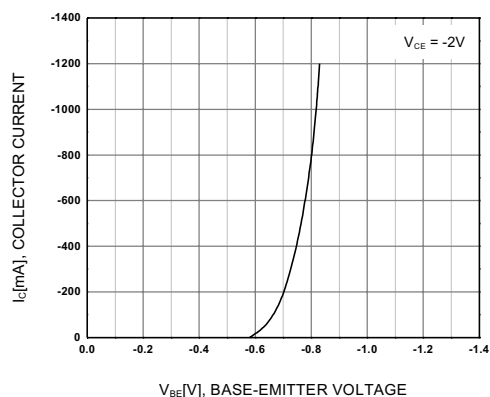


Figure 4. Base-Emitter On Voltage

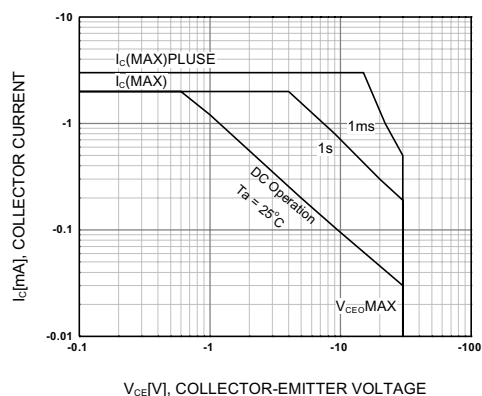


Figure 5. Safe Operating Area

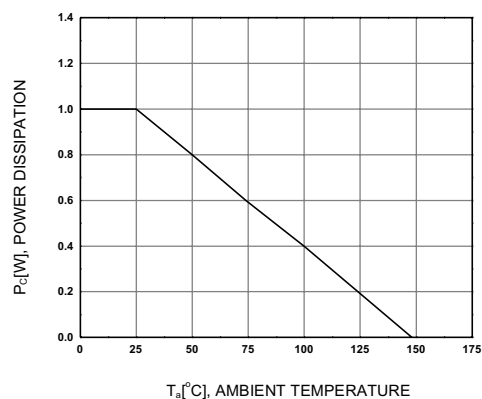


Figure 6. Power Derating

Ordering Information

Device	Packing
(Part Number)-BP	Bulk;500pcs/Bag

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