



Micro Commercial Components



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2SC945-Y 2SC945-GR

Features

- Capable of 0.4Watts of Power Dissipation.
- Collector-current 0.15A
- Collector-base Voltage 60V
- Operating and storage junction temperature range: -55°C to +150°C
- 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)

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
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OFF CHARACTERISTICS

$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_C=0.1mA$, $I_B=0$)	50		Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C=1000\mu A$, $I_E=0$)	60		Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ($I_E=100\mu A$, $I_C=0$)	5.0		Vdc
I_{CBO}	Collector Cutoff Current ($V_{CB}=60V$, $I_E=0$)		0.1	μA
I_{CER}	Collector Cutoff Current ($V_{CE}=55V$, $R=10M\Omega$)		0.1	μA
I_{EBO}	Emitter Cutoff Current ($V_{EB}=5.0V$, $I_C=0$)		0.1	μA

ON CHARACTERISTICS

$h_{FE(1)}$	DC Current Gain ($I_C=1.0mA$, $V_{CE}=6.0V$)	120	400	
$h_{FE(2)}$	DC Current Gain ($I_C=0.1mA$, $V_{CE}=6.0V$)	40		
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=100mA$, $I_B=10mA$)		0.3	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ($I_C=100mA$, $I_B=10mA$)		1.0	Vdc
V_{BE}	Base-Emitter Voltage ($I_E=310mA$)		1.4	Vdc

SMALL-SIGNAL CHARACTERISTICS

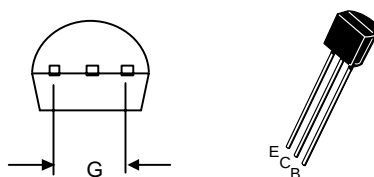
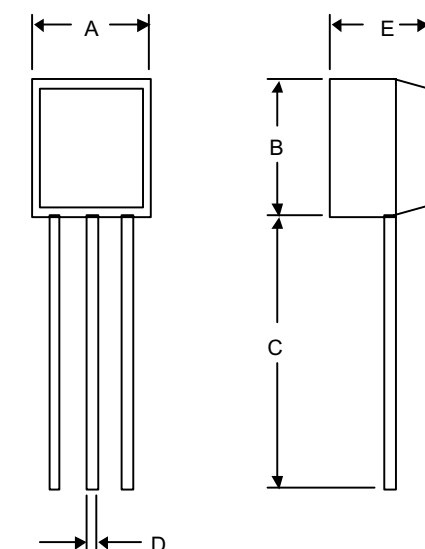
f_T	Transistor Frequency ($I_C=10mA$, $V_{CE}=6.0V$, $f=30MHz$)	150		MHz
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CLASSIFICATION OF H_{EFF}

Rank	Y	GR
Range	120-240	200-400

NPN Silicon Plastic-Encapsulate Transistor

TO-92



DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.170	.190	4.33	4.83	
B	.170	.190	4.30	4.83	
C	.550	.590	13.97	14.97	
D	.010	.020	0.36	0.56	
E	.130	.160	3.30	3.96	
G	.096	.104	2.44	2.64	

www.mccsemi.com

Ordering Information :

Device	Packing
Part Number-AP	Ammo Packing: 2Kpcs/Ammo Box
Part Number-BP	Bulk: 100Kpcs/Carton

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