

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

Features

- SOT-23 Plastic-Encapsulate Transistors •
- Capable of 0.625Watts(Tamb=25°C) of Power Dissipation. •
- Collector-current 1.5A •
- Collector-base Voltage 40V •
- Operating and storage junction temperature range: -55°C to +150°C •
- Marking : Y1 •
- Case Material: Molded Plastic. UL Flammability • Classification Rating 94V-0

Electrical Characteristics @ 25°C Unless Otherwise Specified					
Symbol	Parameter		Min	Мах	Units
OFF CHARACTERISTICS					
V _{(BR)CBO}	Collector-Base Breakdown Voltage (≿=100uAdc, l∈=0)		40		Vdc
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (⊱=0.1mAdc, ⊫=0)		25		Vdc
V _{(BR)EBO}	Emitter-Base Breakdown Voltage (ᡶ=100uAdc, l _c =0)		5.0		Vdc
Сво	Collector Cutoff Current (V _{CB} =40Vdc, <u></u> ⊧=0)			0.1	uAdc
_{ΕΟ}	Collector Cutoff Current (V _{CE} =20Vdc, _b =0)			0.1	uAdc
I _{EBO}	Emitter Cutoff Current (V _{EB} =5.0Vdc, <u></u> {=0)			0.1	uAdc
ON CHARACTERISTICS					
h _{FE(1)}	DC Current Gain (t=100mAdc, V _{CE} =1.0Vdc)		120	350	
h _{FE(2)}	DC Current Gain (t=800mAdc, V _{CE} =1.0Vdc)		40		
V _{CE(sat)}	Collector-Emitter Saturation Voltage (৮=800mAdc, I₀=80mAdc)			0.5	Vdc
V _{BE(sat)}	Base-Emitter Saturation Voltage (৮=800mAdc, I₀=80mAdc)			1.2	Vdc
V _{EB}		Emitter Voltage .5Adc)		1.6	Vdc
SMALL-SIGN	IAL CHA	RACTERISTICS			
f _T	Transistor Frequency (৮=50mAdc, V _{CE} =10Vdc, f=30MHz)		100		MHz
CLASSIFICA	TION OF	HFE (1)			
Rank		L	Н		
Range		120-200	200-350		

NPN Silicon Plastic-Encapsulate Transistor SOT-23 D Ħ в ċ F ĸ DIMENSIONS INCHES ММ NOTE DIM MAX MIN MAX MIN .110 .120 2.80 3.04 А В .083 .098 2.10 2.64 С .047 .055 1.20 1.40 D .035 .041 .89 1.03 .081 1.78 2.05 .070 .018 .024 .45 .60 G .013 .100 .0005 .0039 .044 1.12 Н .035 .89 .007 .085 .003 .180 k .015 .020 51 Suggested Solder Pad Layout 031 .800 035 <u>.079</u> 2.000 inches mm

<u>.037</u> .950

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MMSS8050

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