

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 0.3Watts(Tamb=25^oC) of Power Dissipation.
- Collector-current 0.5A
- Collector-base Voltage 40V
- Operating and storage junction temperature range: -55° C to $+150^{\circ}$ C
- Marking : J3
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

Electrical Characteristics @ 25°C Unless Otherwise Specified

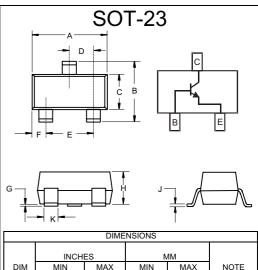
Symbol	Parameter	Min	Max	Units		
OFF CHARACTERISTICS						
V _{(BR)CBO}	Collector-Base Breakdown Voltage (⊱=100uAdc, l∈=0)	40		Vdc		
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (t-=0.1mAdc, la=0)	25		Vdc		
V _{(BR)EBO}	Emitter-Base Breakdown Voltage (t=100uAdc, t _c =0)	5.0		Vdc		
сво	Collector Cutoff Current (V _{CB} =40Vdc, <u>k</u> =0)		0.1	uAdc		
CEO	Collector Cutoff Current (V_{CE} =20Vdc, $_{B}$ =0)		0.1	uAdc		
Ево	Emitter Cutoff Current (V _{EB} =5.0Vdc, _b =0)		0.1	uAdc		
ON CHARAC			•			
$h_{\text{FE}(1)}$	DC Current Gain (b=50mAdc, Vce=1.0Vdc)	120	350			
$h_{FE(2)}$	DC Current Gain (L=500mAdc, V _{CE} =1.0Vdc)	40				
$V_{\text{CE(sat)}}$	Collector-Emitter Saturation Voltage (b=500mAdc, b=50mAdc)		0.6	Vdc		
$V_{\text{BE(sat)}}$	Base-Emitter Saturation Voltage (h=500mAdc, h=50mAdc)		1.2	Vdc		
V_{EB}	Base- Emitter Voltage (I _E =100mAdc)		1.4	Vdc		
SMALL-SIG	VAL CHARACTERISTICS	-	•			
f _T	Transistor Frequency (t _c =20mAdc, V _{ce} =6.0Vdc, f=30MHz)	150		MHz		

CLASSIFICATION OF HEELD

Rank	L	Н				
Range	120-200	200-350				

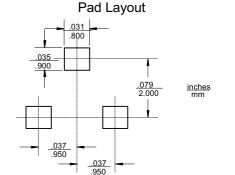
MMS9013-L MMS9013-H

NPN Silicon Plastic-Encapsulate Transistor





Suggested Solder



www.mccsemi.com



Ordering Information :

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

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