

Micro Commercial Components



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

Features

- Switching and Amplifier Applications Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1 Lead Free Finish/RoHS Compliant ("P" Suffix designates
- RoHS Compliant. See ordering information) Marking Code:MPS651
 - 051

Maximum Ratings

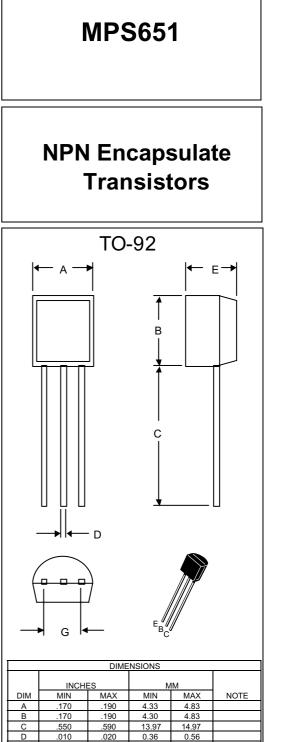
Symbol	Rating	Rating	Unit
V _{CEO}	Collector-Emitter Voltage	60	V
V _{CBO}	Collector-Base Voltage	80	V
V _{EBO}	Emitter-Base Voltage	5.0	V
l _c	Collector Current, Continuous	2	А
TJ	Operating Junction Temperature	-55 to +150	°C
T _{STG}	Storage Temperature	-55 to +150	°C

Thermal Characteristics

Symbol	Rating	Max	Unit
P _D	Total Device Dissipation	625	mW

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARA	CTERISTICS			
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage* (L=10mAdc, L=0)	60		Vdc
V _{(BR)CBO}	Collector-Base Breakdown Voltage (L=100uAdc, I _E =0)	80		Vdc
V _{(BR)EBO}	Emitter-Base Breakdown Voltage (L=10uAdc, L=0)	5.0		Vdc
сво	Collector Cutoff Current (V _{CB} =80Vdc, I _E =0)		100	nAdc
I _{EBO}	Base Cutoff Current (V _{EB} =4Vdc, I _C =0)		100	nAdc
h _{FE}	DC Current Gain (V _{CE} =2.0Vdc, I _C =50mAdc) (V _{CE} =2.0Vdc, I _C =100mAdc) (V _{CE} =2.0Vdc, I _C =1Adc) (V _{CE} =2.0Vdc, I _C =2Adc)	75 75 75 40		
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _c =2Adc, I _b =200mAdc) (I _c =1Adc, I _b =100mAdc)		0.5 0.3	Vdc Vdc
V _{BE(sat)}	Base-Emitter saturation Voltage $(I_c=1Adc, I_B=100mA)$		1.2	Vdc
V _{BE(on)}	Base-Emitter On Voltage (I _c =1Adc, V _{cE} =2.0Vdc)		1.0	Vdc
f _T	Transition frequency (I _c =50mAdc, V _{cE} =5Vdc,f=100MHz)	75		MHz



.130

0.96

160

3.30

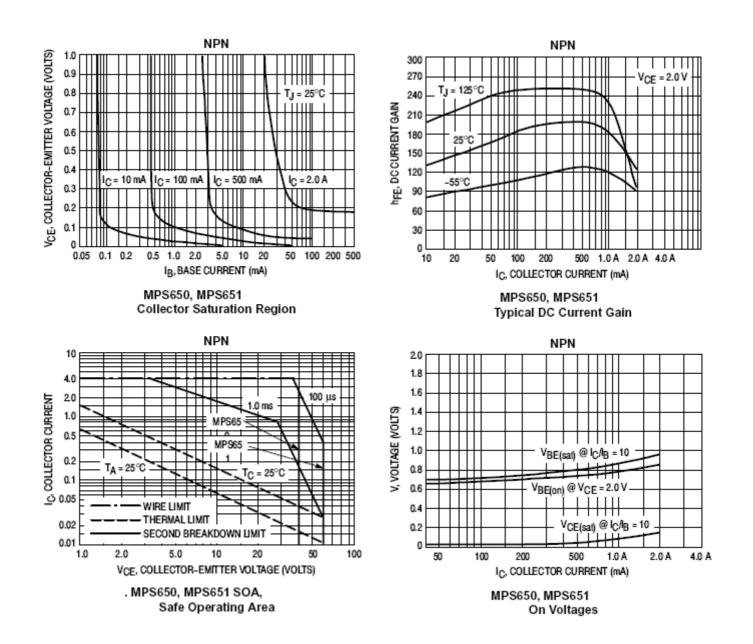
3.96

2 64

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MPS651





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Ordering Information :

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

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