

Micro Commercial Components



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

Features

- Capable of 0.2Watts of Power Dissipation.
- Collector-current 0.15A
- Collector-base Voltage 60V
- Operating and storage junction temperature range: -55°C to +150°C
- 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
- Marking: CR•

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARACTERISTICS				
V (BR)CEO	Collector-Emitter Breakdown Voltage (I $_{c}$ =1mAdc, $_{B}$ =0)	50		Vdc
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _c =100uAdc, I _E =0)	60		Vdc
V _{(BR)EBO}	Emitter-Base Breakdown Voltage (I _E =100uAdc, I _c =0)	5.0		Vdc
I _{CBO}	Collector Cutoff Current (V _{CB} =60Vdc, <u>k</u> =0Adc)		0.1	uAdc
ber	Collector Cutoff Current (V _{CE} =55Vdc,R=10M OHM)		0.1	uAdc
I _{EBO}	Emitter Cutoff Current (V _{EB} =5.0Vdc, <code>b=0Adc</code>)		0.1	uAdc
ON CHARACTERISTICS				
h _{FE(1)}	DC Current Gain (t=1.0mAdc, V _{CE} =6.0Vdc)	130	400	
h _{FE(2)}	DC Current Gain			

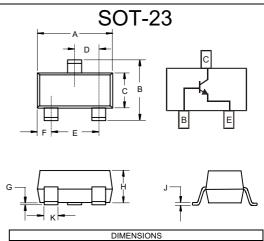
	(12 - 1.011) Add, $VCE = 0.0VdC)$	150	400	
h _{FE(2)}	DC Current Gain			
	(I _c =0.1mAdc, V _{ce} =6.0Vdc)	40		
V _{CE(sat)}	Collector-Emitter Saturation Voltage			
. ,	(I _c =100mAdc, I _a =10mAdc)		0.3	Vdc
V _{BE(sat)}	Base-Emitter Saturation Voltage			
. ,	(I _c =100mAdc, I _B =10mAdc)		1.0	Vdc
C _{ob}	Collector output capacitance			
	(V _{CB} =10V, I _E =0 ,f=1MHz)		3.0	pF

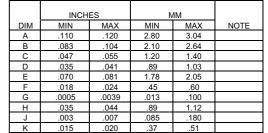
SMALL-SIGNAL CHARACTERISTICS

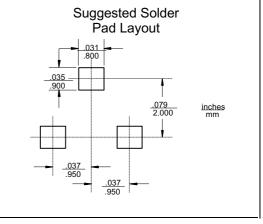
f _T	Transistor Frequency				
	(c=10mAdc, V _{CE} =6.0Vdc, f=30MHz)	150		MHz
CLASSIFICATION OF HELLD					
Rank	L	Н			
Range	130-200	200-400			

MMBT945-L MMBT945-H

NPN Silicon Plastic-Encapsulate Transistor







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Ordering Information :

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

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