imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





Micro Commercial Components



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

Features

- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epitaxial Planar Die Construction
- Ideal for Medium Power Amplification and Switching
- Ultra-small surface mount package
- Marking : K3M
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

Maximum Ratings

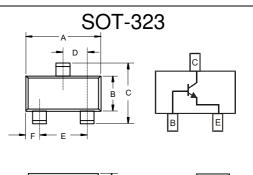
Symbol	Rating	Rating	Unit
V _{CEO}	Collector-Emitter Voltage	300	V
V _{CBO}	Collector-Base Voltage	300	V
V _{EBO}	Emitter-Base Voltage	6.0	V
l _c	Collector Current-Continuous (1) (3)	200	mA
Pc	Power dissipation ⁽¹⁾	200 mW	
TJ	Junction Temperature	-55 to +150 ^o C	
T _{STG}	Storage Temperature	-55 to +150	°C
510			

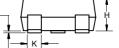
Electrical Characteristics @ 25°C Unless Otherwise Specified

Electrical Gliaracteristics @ 25°C Unless Utierwise Specified					
Symbol	Parameter	Min	Max	Units	
OFF CHARACTERISTICS					
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (l _c =1.0mAdc, l _B =0)	300		Vdc	
V _{(BR)CBO}	Collector-Base Breakdown Voltage (t _c =100uAdc, t _e =0)	300		Vdc	
V _{(BR)EBO}	Collector-Emitter Breakdown Voltage (l _E =100uAdc, l _C =0)	6.0		Vdc	
Сво	Collector-Base Cutoff Current (V _{CB} =200Vdc,I _E =0)		100	nAdc	
I _{EBO}	Emitter-Base Cutoff Current (V _{CE} =6.0Vdc, I _C =0)		100	nAdc	
ON CHARAC	ON CHARACTERISTICS ⁽²⁾				
h _{FE}	DC Current Gain				
	(I _c =1.0mAdc, V _{ce} =10Vdc)	25			
	(I _C =10mAdc, V _{CE} =10Vdc)	40			
	(I _C =30mAdc, V _{CE} =10Vdc)	40			
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _c =20mAdc, I _B =2.0mAdc)		0.5	Vdc	
V _{BE(sat)}	Base-Emitter Saturation Voltage (l _c =20mAdc, l _B =2.0mAdc)		0.9	Vdc	
SMALL SIG	SMALL SIGNAL CHARACTERISTICS				
f _T	Current-Gain-Bandwidth Product (V _{CE} =20V, f=100MHz, I _C =10mA)	50		MHz	
C _{CB}	Collector-Base Capacitance (V _{CB} =20V, f=1.0MHz, I _E =0)		3.0	pF	

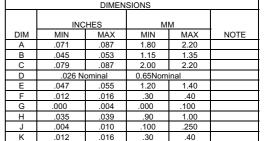
NPN Small Signal Transistors

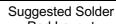
MMSTA42

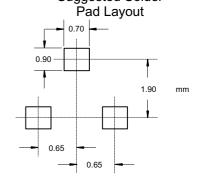












Note: 1. Valid provided that terminals are kept at ambient temperature.

2. Pulse test: Pulse width<300us, duty cycle<2%

3. When operated within safe operating area constraints.

www.mccsemi.com



Ordering Information :

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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