

Micro Commercial Components



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

Features

- 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

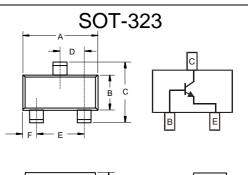
Symbol	Rating	Rating	Unit
V _{CEO}	Collector-Emitter Voltage	300	V
V _{CBO}	Collector-Base Voltage	300	V
V _{EBO}	Emitter-Base Voltage	6.0	V
l _c	Collector Current-Continuous (1) (3)	200	mA
Pc	Power dissipation ⁽¹⁾	200	mW
TJ	Junction Temperature	-55 to +150	°C
T _{STG}	Storage Temperature	-55 to +150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

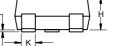
Electrical Characteristics @ 25°C Unless Otherwise Specified

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 (tc=100uAdc, tc=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 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		

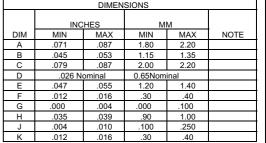


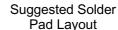
MMSTA42

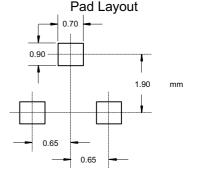












Note: 1. Valid provided that terminals are kept at ambient temperature.

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&Reel3Kpcs/Reel

*****IMPORTANT NOTICE*****

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. *Micro Commercial Components Corp*. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp*. and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

www.mccsemi.com