



Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 (818) 701-4939 Fax:

- 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 Power Dissipation: 0.2W
- Ultra-small surface mount package
- Marking: K3P

Maxim um Ratings

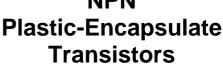
Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	40	V
V_{CBO}	Collector-Base Voltage	75	V
V_{EBO}	Emitter-Base Voltage	6.0	V
I _{CBO}	Collector Cut-off Current $(V_{CB}=70V, I_E=0)$	100	mA
I _{CEO}	Collector Cut-off Current (V _{CE} =35V, I _B =0)	100	mA
I _{EBO}	Emitter Cut-off Current (V _{EB} =3V, I _C =0)	100	mA
Pc	Power dissipation (1)	200	mW
TJ	Junction Temperature	-55 to +150	$^{\circ}\mathbb{C}$
T _{STG}	Storage Temperature	-55 to +150	$^{\circ}$

Flectrical Characteristics @ 25°C Unless Otherwise Specified

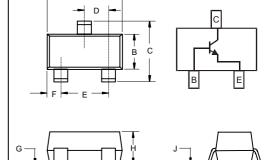
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Symbol	Parameter	Min	Max	Units	
OFF CHARA	CTERISTICS ⁽²⁾				
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (I _C =1.0mAdc, I _B =0)	40		Vdc	
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (I _C =10mAdc, I _E =0)	75		Vdc	
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage (I _E =10uAdc, I _C =0)	6.0		Vdc	
ON CHARA	CTERISTICS (2)				
h _{FE}	DC Current Gain (I _C =150mAdc, V _{CE} =10Vdc) (I _C =1.0mAdc, V _{CE} =10Vdc)	100 50	300		
$V_{\text{CE(sat)}}$	Collector-Emitter Saturation Voltage (I _C =500mAdc, I _B =50mAdc)		0.6	Vdc	
$V_{\text{BE}(\text{sat})}$	Base-Emitter Saturation Voltage (I _C =500mAdc, I _B =50mAdc)		1.2	Vdc	
f_{T}	Transition Frequency (V _{CE} =20V, I _C =20mA, f=100MHz)	300		Hz	
C_ob	Output Capacitance (V _{CB} =10V, I _E =0mA, f=1MHz)		8	pF	
t _d	Delay Time (V_{CC} =30V , I_{cc} =150mA , $V_{BE(off)}$ =0.5V, I_{B1} =15mA)		10	ns	
t _r	Rise Time (V_{CC} =30V , I_{cc} =150mA , $V_{BE(off)}$ =0.5V, I_{B1} =15mA)		25	ns	
t _s	Storage Time $(V_{CC}=30V, I_{cc}=150mA, I_{B1}=I_{B2}=15mA)$		225	ns	
t _f	Fall Time $(V_{CC}=30V, I_{cc}=150mA, I_{B1}=I_{B2}=15mA)$		60	ns	

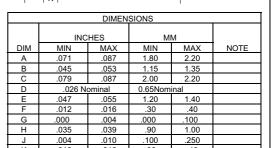
MMST2222A

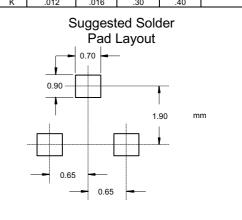
NPN



SOT-323









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Ordering Information:

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

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