

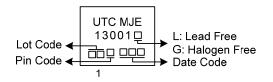
MJE13001-XS Preliminary NPN SILICON TRANSISTOR NPN SILICON POWER
TRANSISTOR Image: Constraints Image: Constraints • FEATURES
* Collector current: Ic=0.2A Image: Constraints Image: Constraints

ORDERING INFORMATION

Ordering Number		Dookogo	Pin Assignment			Deaking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
MJE13001L-x-T92-A-B	MJE13001G-x-T92-A-B	TO-92	Ш	С	В	Tape Box	
MJE13001L-x-T92-A-K	MJE13001G-x-T92-A-K	TO-92	Ш	С	В	Bulk	
MJE13001L-x-T92-F-B	MJE13001G-x-T92-F-B	TO-92	В	С	E	Tape Box	
MJE13001L-x-T92-F-K	MJE13001G-x-T92-F-K	TO-92	В	С	E	Bulk	
Note: Pin Assignment: C: Collector B: Base E: Emitter							

MJE13001G-T92-A-B (1)Packing Type (2)Pin Assignment (3)Package Type (4)Green Package	 (1) B: Tape Box, K: Bulk (2) refer to Pin Assignment (3) T92: TO-92 (4) G: Halogen Free and Lead Free, L: Lead Free
--	--

MARKING



ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	RATINGS	UNIT	
Collector-Emitter Voltage	V _{CEO}	400	V	
Collector-Base Voltage	V _{CBO}	600	V	
Emitter Base Voltage	V _{EBO}	7	V	
Collector Current	lc	200	mA	
Collector Power Dissipation	Pc	750	mW	
Junction Temperature	TJ	+150	°C	
Storage Temperature	T _{STG}	-55 ~ +150	°C	

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ ELECTRICAL CHARACTERISTICS (T_A=25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT	
Collector-Base Breakdown Voltage	BV _{CBO}	I _C =100μΑ, I _E =0	600			V	
Collector-Emitter Breakdown Voltage	BV _{CEO}	I _C =1mA, I _B =0	400			V	
Emitter-Base Breakdown Voltage	BV _{EBO}	I _E =100μA, I _C =0	7			V	
Collector Cutoff Cut-Off Current	I _{CBO}	V _{CB} =600V, I _E =0A			100	μA	
Collector Emitter Cut-Off Current	I _{CEO}	V _{CE} =400V, I _B =0			200	μA	
Emitter Cutoff Cut-Off Current	I _{EBO}	V _{EB} =7V, I _C =0A			100	μA	
ON CHARACTERISTICS							
DC Current Gain	h _{FE}	V _{CE} =20 V, I _C =20mA	15		30		
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C =50mA, I _B =10mA			0.5	V	
Base-Emitter Saturation Voltage	V _{BE(SAT)}	I _C =50mA, I _B =10mA			1.2	V	
SMALL-SIGNAL CHARACTERISTICS	_						
Current Gain Bandwidth Product	f⊤	I _C =20mA,V _{CE} =20V,f=1MHz	5			MHz	
Resistive Load		· · · · · · · · · · · · · · · · · · ·					
Storage Time	ts	I _C =50mA, I _{B1} =-I _{B2} =5mA,			2	μs	
Fall Time	t⊢	V _{CC} =45V			0.3	μs	



UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. UTC reserves the right to make changes to information published in this document, including without limitation specifications and product descriptions, at any time and without notice. This document supersedes and replaces all information supplied prior to the publication hereof.

