

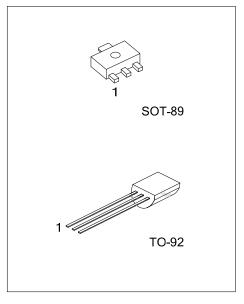
MJE13001

NPN SILICON TRANSISTOR

NPN SILICON POWER TRANSISTOR

FEATURES

- * Collector-base voltage: $V_{(BR)CBO}$ =600V
- * Collector current: I_C=0.2A



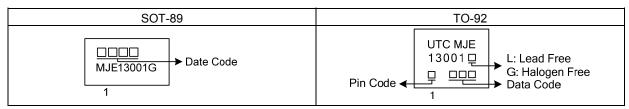
ORDERING INFORMATION

Ordering	Deekege	Pin	Assignm	Deeking		
Lead Free	Halogen Free	Package	1	2	3	Packing
-	MJE13001G-x-AB3-A-R	SOT-89	E	С	В	Tape Reel
-	MJE13001G-x-AB3-F-R	SOT-89	В	С	E	Tape Reel
MJE13001L-x-T92-B	MJE13001G-x-T92-B	TO-92	В	С	E	Tape Box
MJE13001L-x-T92-K	MJE13001G-x-T92-K	TO-92	В	С	E	Bulk
MJE13001L-x-T92-A-B	MJE13001G-x-T92-A-B	TO-92	Е	С	В	Tape Box
MJE13001L-x-T92-A-K	MJE13001G-x-T92-A-K	TO-92	Е	С	В	Bulk

Note: Pin Assignment: C: Collector B: Base E: Emitter

	(1)Packing Type (2)Pin Assignment (3)Package Type (4)Rank (5)Green Package	 (1) B: Tape Box, K: Bulk, R: Tape Reel (2) refer to Pin Assignment (3) AB3: SOT-89, T92: TO-92 (4) x: refer to Classification of h_{FE1} (5) G: Halogen Free and Lead Free, L: Lead Free 	
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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		Ic	200	mA
O-lla stan Davisa Dia sia stian	SOT-89	P	550	
Collector Power Dissipation	TO-92	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)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
BV _{CBO}	I _C =100μΑ, I _E =0	600			V
BV _{CEO}	I _C =1mA, I _B =0	400			V
BV _{EBO}	I _E =100μA, I _C =0	7			V
V _{BE}	V _{BE} I _E =100 mA			1.1	V
I _{CBO}	V _{CB} =600V, I _E =0A			100	μA
I _{CEO}	V _{CE} =400V, I _B =0			200	μA
I _{EBO}	V _{EB} =7V, I _C =0A			100	μA
h _{FE1} *	V _{CE} =20 V, I _C =20mA	10		70	
h _{FE2}	V _{CE} =10V, I _C =0.25mA	5			
V _{CE(SAT)}	I _C =50mA, I _B =10mA			0.5	V
V _{BE(SAT)}	I _C =50mA, I _B =10mA			1.2	V
f⊤	I _C =20mA,V _{CE} =20V,f=1MHz	8			MHz
ts	I _C =50mA, I _{B1} =-I _{B2} =5mA,			1.5	μs
t _F	V _{CC} =45V			0.3	μs
	BV _{CBO} BV _{CEO} BV _{EBO} V _{BE} ICBO ICEO IEBO hFE1* hFE2 VCE(SAT) VBE(SAT) fT	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

■ CLASSIFICATION OF h_{FE1}*

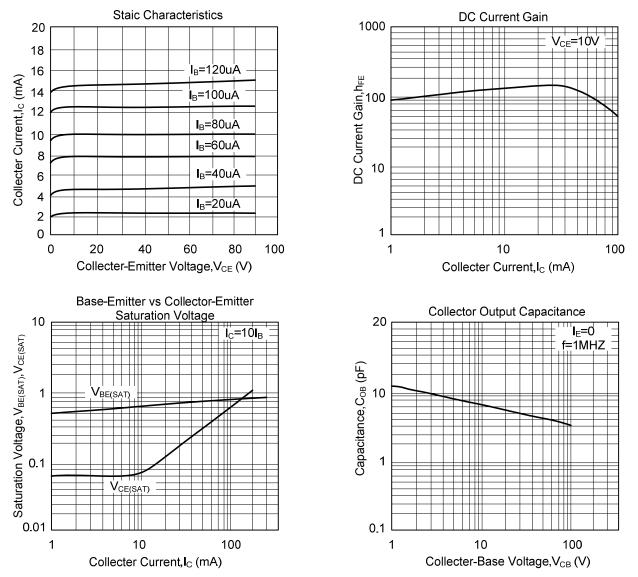
RANK	А	В	С	D	E	F	G	Н	Ι	J	К	L
RANGE	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70



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TYPICAL CHARACTERISTICS



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