ΡΛΝ	JIT
	SEMI
	CONDUCTOR

NPN High Voltage Transistor



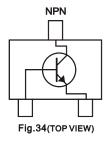
Features

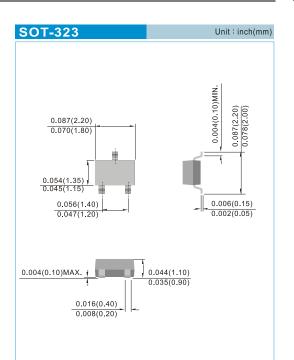
Voltage

- NPN silicon, planar design
- Collector current I_c = 500mA
- Lead free in compliance with EU RoHS 2011/65/EU directive.
- Green molding compound as per IEC61249 Std. (Halogen Free)

Mechanical Data

- Case: SOT-323 Package
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00018 ounces, 0.005 grams
- Marking: B06





Maximum Ratings and Thermal Characteristics (T_A=25°C unless otherwise noted)

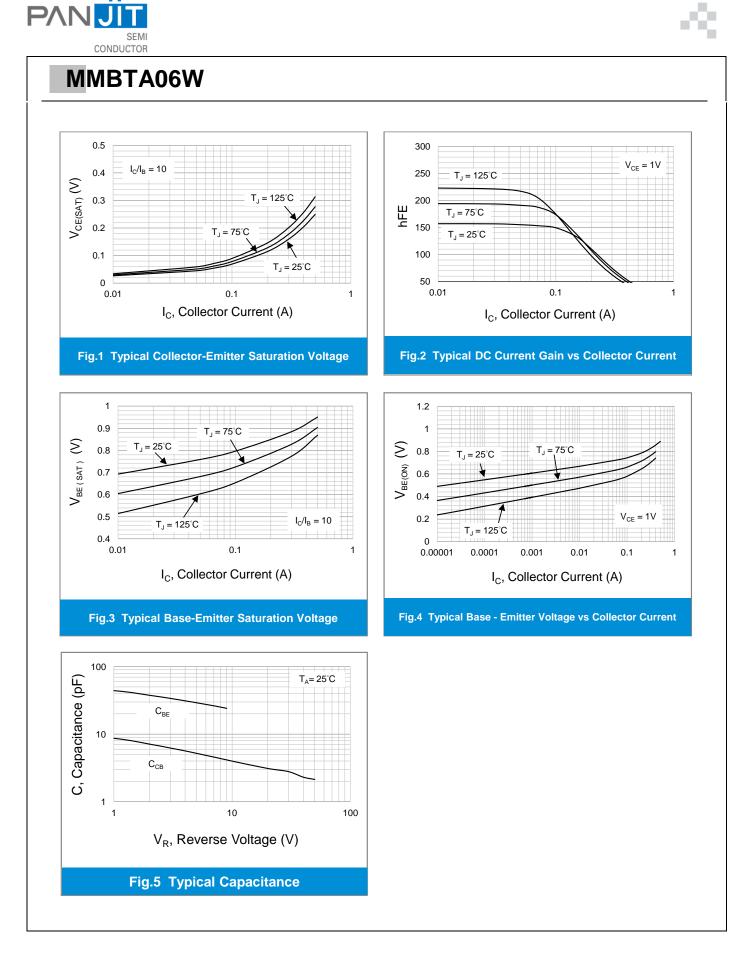
PARAMETER	SYMBOL	LIMIT	UNITS
Collector-Emitter Voltage	V _{CBO}	80	V
Collector-Base Voltage	V _{CEO}	80	V
Emitter-Base Voltage	V _{EBO}	4	V
Collector Current-Continuous	Ι _C	500	mA
Maximum Power Dissipation (Note 1)	PD	225	mW
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150	°C
Typical Junction-to Ambient Thermal Resistance (Note 1)	$R_{ extsf{ heta}JA}$	550	°C/W

Note : 1. Mounted on a FR4 PCB, single-sided copper, mini pad.

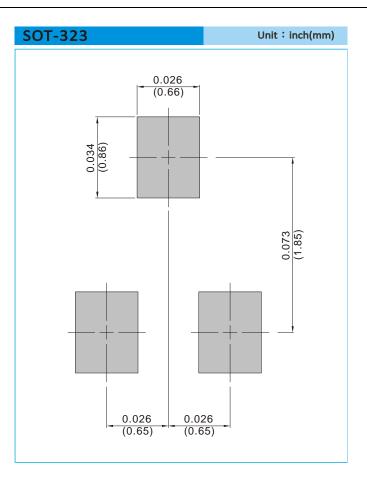


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Electrical Characteristics ($T_A=25^{\circ}C$ unless otherwise noted)							
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
OFF Characteristics							
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	I _C = 1mA, I _B = 0	80	-	-	V	
Collector-Base Breakdown Voltage	V _{(BR)CBO}	I_{C} = 100 μ A, I_{E} = 0	80	-	-	V	
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	$I_E = 100 \mu A, I_C = 0$	4	-	-	V	
Collector Cutoff Current	I _{CBO}	V_{CB} = 80V, I_{E} = 0	-	-	100	nA	
Collector Cutoff Current	I _{CES}	$V_{CE} = 60V, I_B = 0$	-	-	100	nA	
ON characteristics							
DC Current Gain	h _{FE}	V_{CE} = 1V, I _C = 10mA	100	-	-		
		V _{CE} = 1V, I _C = 100mA	100	-	-		
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C =100mA, I _B = 10mA	-	-	0.25	V	
Base-Emitter Turn-on voltage	V _{BE(on)}	I _C =100mA, V _{CE} = 1V	-	-	1.2	V	
Current-Gain-Bandwidth Product	f⊤	I _C =10mA, V _{CE} = 2V f=100MHz	100	-	-	MHz	







ORDER INFORMATION

- Packing information
 - T/R 12K per 13" plastic Reel T/R 3K per 7" plastic Reel





MMBTA06W

Part No_packing code_Version

MMBTA06W_R1_00001 MMBTA06W_R2_00001

For example :

RB500V-40_R2_00001

Serial number

Version code means HF
Packing size code means 13"

Part No.

-• Packing type means T/R

Packing Code XX			Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	т	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



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