# ά,

Unit : inch(mm)

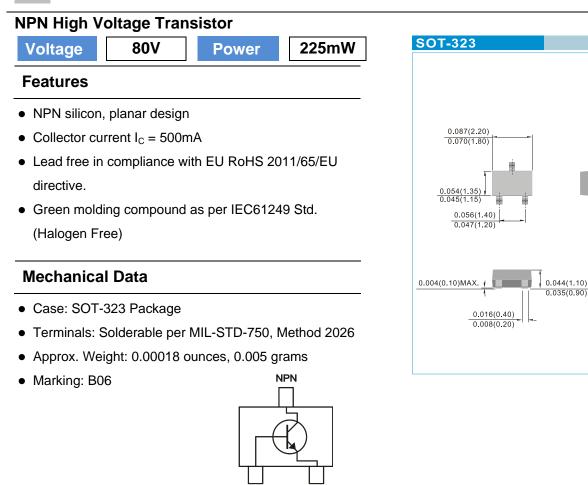
0.087(2.20) 0.078(2.00)

0.006(0.15)

0.002(0.05)

0.004(0.10)MIN

## MMBTA06W



#### Maximum Ratings and Thermal Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

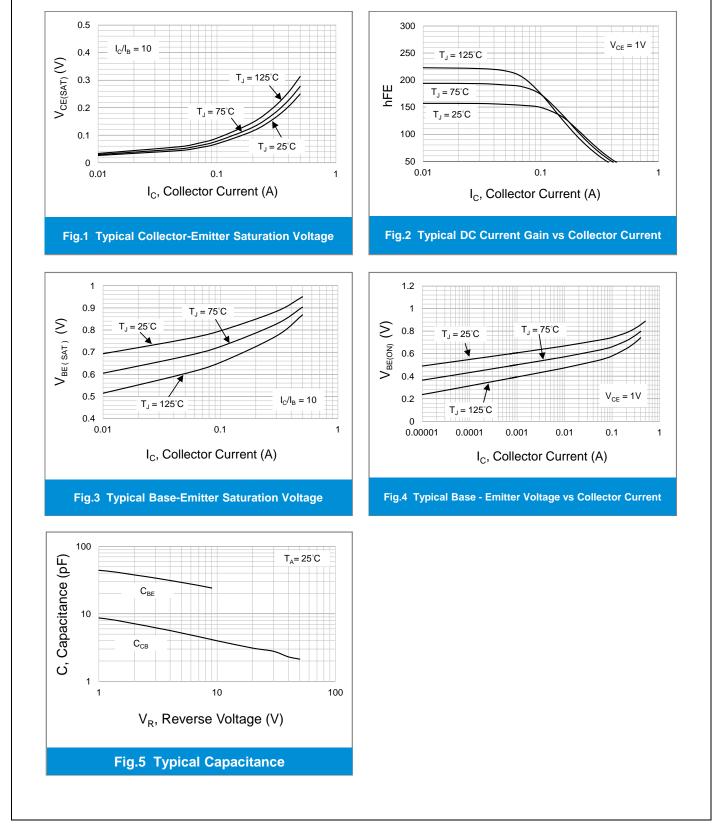
Fig.34(TOP VIEW)

PARAMETER		LIMIT	UNITS
Collector-Emitter Voltage	V <sub>CBO</sub>	80	V
Collector-Base Voltage	V <sub>CEO</sub>	80	V
Emitter-Base Voltage	V <sub>EBO</sub>	4	V
Collector Current-Continuous	Ι <sub>C</sub>	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.



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

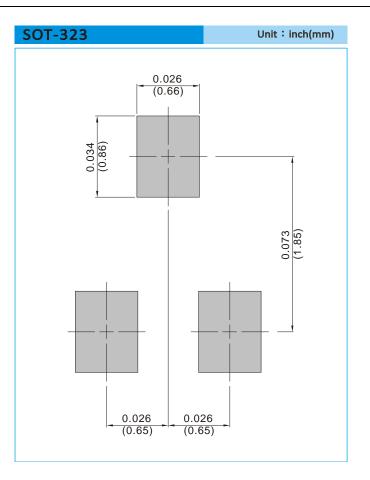








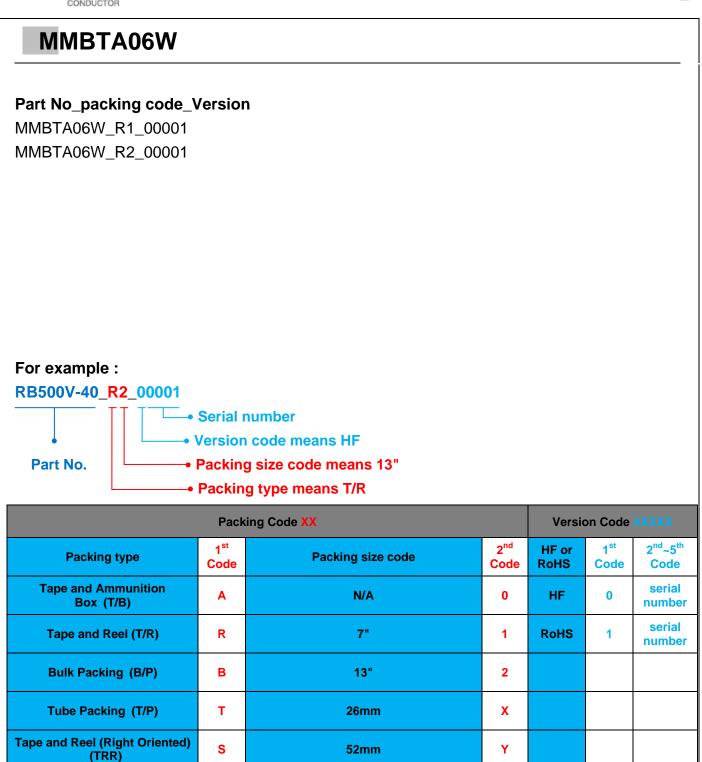
#### MOUNTING PAD LAYOUT



#### ORDER INFORMATION

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





**PANASERT T/B** 

CATHODE UP (PBCU)

**PANASERT T/B** 

**CATHODE DOWN (PBCD)** 

U

D

Tape and Reel (Left Oriented)

(TRL)

FORMING

L

F



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