

NPN HIGH VOLTAGE TRANSISTOR

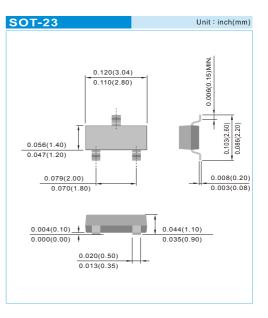
VOLTAGE 400 Volt POWER 225 mWatt

FEATURES

- · Silicon, planar design
- Collector-emitter voltage V_{ce} = 400V
- Collector current I_c = 300mA
- · Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. .
- (Halogen Free)

MECHANICAL DATA

- Case: SOT-23, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0003 ounces, 0.008 grams
- Marking: A44

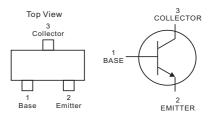


ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Units
Collector - Emitter Voltage	V _{ceo}	400	V
Collector - Base Voltage	V _{cbo}	500	V
Emitter - Base Voltage	V _{EBO}	6.0	V
Collector Current Continuous	l _c	300	mA

THERMAL CHARACTERISTICS

Parameter	Symbol	Value	Units
Max Power Dissipation (Note 1)	P _{TOT}	225	mW
Thermal Resistance ,Junction to Ambient	R _{eja}	556	°C/W
Junction Temperature	TJ	-55 to 150	°C
Storage Temperature	Т _{stg}	-55 to 150	٥C



Note 1: Transistor mounted on FR-5 board 1 x 0.75 x 0.062 in.

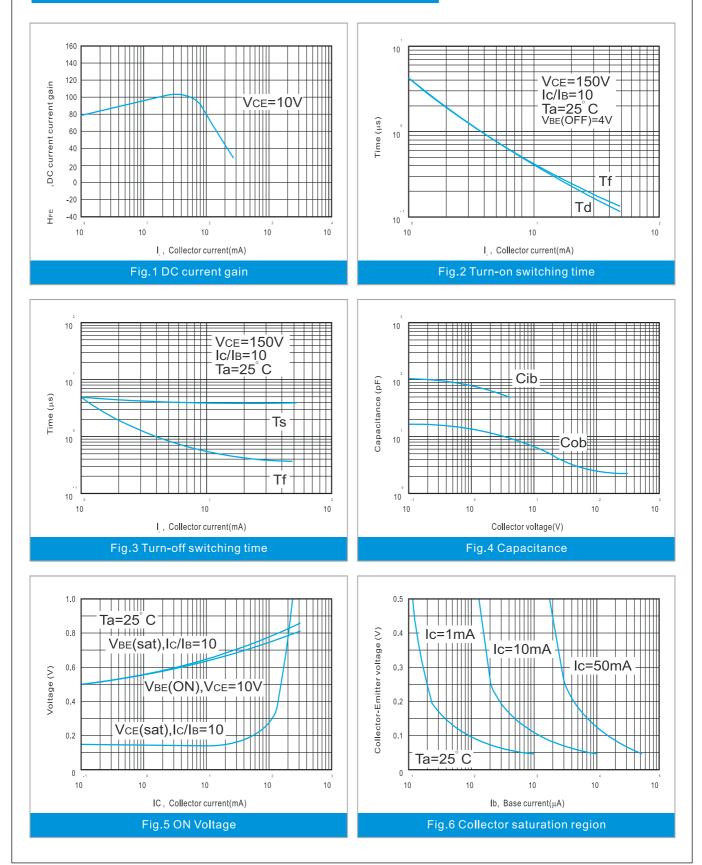


ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Test Condition	MIN.	TYP.	MAX.	Units
Collector - Emitter Breakdown Voltage	V _(BR) CEO	I _c =1mA,I _B =0	400	-	-	V
Collector - Base Breakdown Voltage	V _(BR) CBO	Ι _c =100μΑ,Ι _E =0	500	-	-	V
Emitter - Base Breakdown Voltage	V _(BR) EBO	$I_{E} = 10 \mu A, I_{C} = 0$	6	-	-	V
Collector Cut-off Current	І _{сво}	V _{CB} =400V,I _E =0A	-	-	0.1	μA
Emitter Cut-off Current	I _{EBO}	V _{EB} =6V,I _C =0	-	-	0.1	μA
DC Current Gain	h _{FE}	$V_{ce} = 10V, I_{c} = 1mA$ $V_{ce} = 10V, I_{c} = 10mA$ $V_{ce} = 10V, I_{c} = 50mA$ $V_{ce} = 10V, I_{c} = 100mA$	40 50 45 40	- - -	200 - -	-
Collector - Emitter Saturation Voltage	V _{ce(sat)}	$I_c=1mA,I_B=0.1mA$ $I_c=10mA,I_B=1mA$ $I_c=50mA,I_B=5mA$	-	-	0.4 0.5 0.75	V
Base - Emitter Satruation Voltage	V _{be(sat)}	$I_{c}=10 \text{ mA}, I_{B}=1 \text{ mA}$	-	-	0.75	V
Collector Gain - Bandwidth Product	F _T	I c=10mA, V cE=20V f=100MHz	50	-	-	MHz

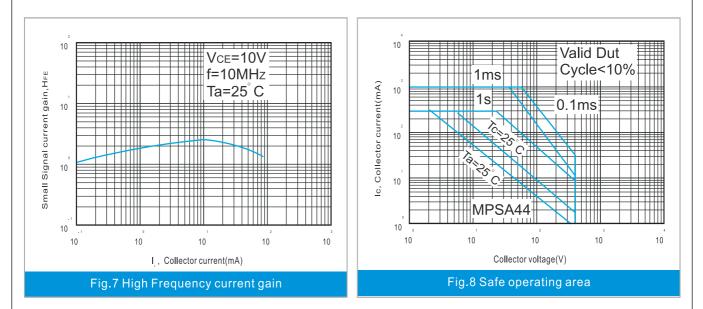


RATING AND CHARACTERISTIC CURVES



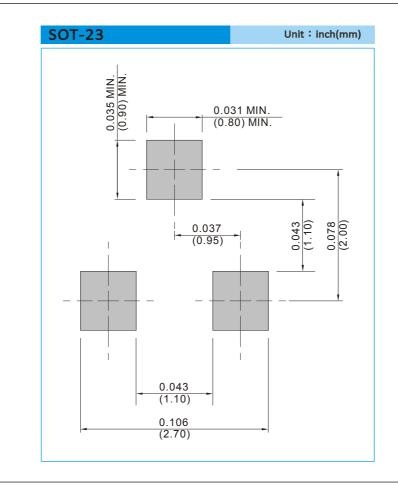


RATING AND CHARACTERISTIC CURVES





MOUNTING PAD LAYOUT



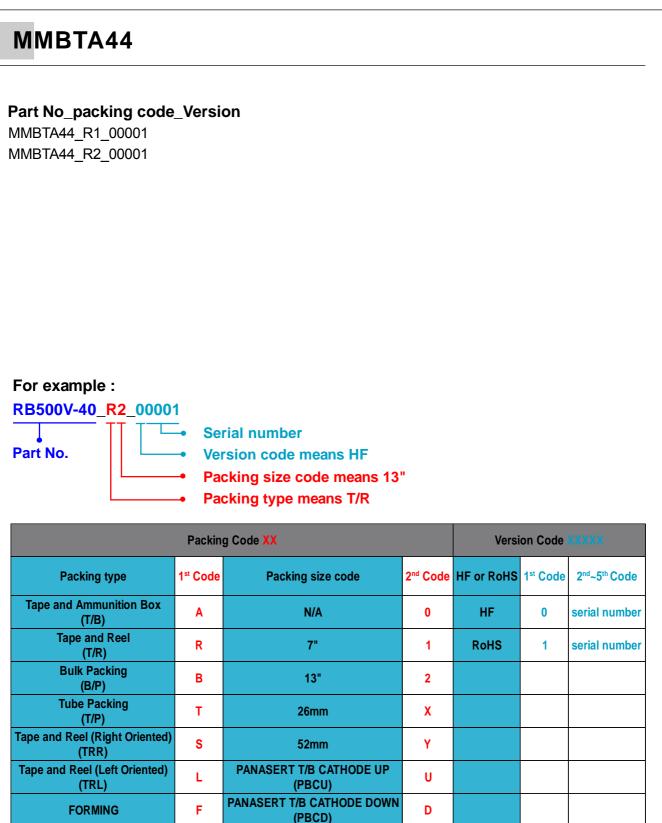
ORDER INFORMATION

Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel









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