



MMDT4403

DUAL PNP GENERAL PURPOSE SWITCHING TRANSISTOR

VOLTAGE 40 Volt **POWER** 225 mWatt

SOT-363 Unit : inch(mm)

FEATURES

- PNP epitaxial silicon, planar design
- Collector-emitter voltage $V_{CE} = -40V$
- Collector current $I_C = -600mA$
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOT-363, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0002 ounces, 0.006 grams
- Marking: M3A

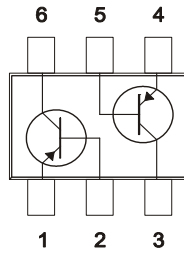
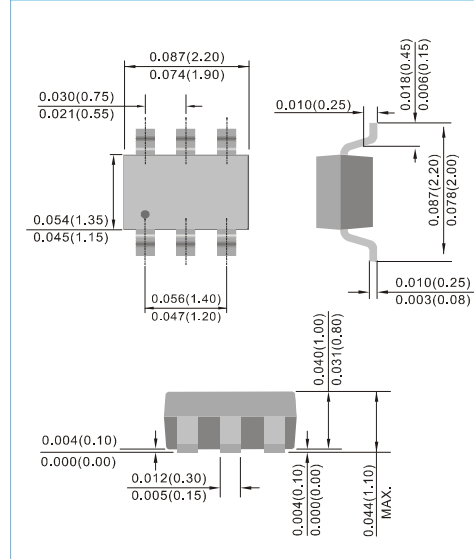


Fig.53



ABSOLUTE RATINGS ($T_A=25^\circ C$ unless otherwise noted)

Parameter	Symbol	Value	Units
Collector - Emitter Voltage	V_{CEO}	-40	V
Collector - Base Voltage	V_{CBO}	-60	V
Emitter - Base Voltage	V_{EBO}	-6	V
Collector Current - Continuous	I_C	-600	mA

THERMAL CHARACTERISTICS ($T_A=25^\circ C$ unless otherwise noted)

Parameter	Symbol	Value	Units
Max Power Dissipation (Note1)	P_{TOT}	225	mW
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	625	$^\circ C/W$
Junction Temperature	T_J	-55 to 150	$^\circ C$
Storage Temperature	T_{STG}	-55 to 150	$^\circ C$

Note : 1. Transistor mounted on FR-4 board 70 x 60 x 1mm.



MMDT4403

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

PARAMETER	Symbol	Test Condition	MIN.	TYP.	MAX.	Units
Collector - Emitter Breakdown Voltage	V _{(BR)CEO}	I _C =-1.0mA, I _B =0	-40	-	-	V
Collector - Base Breakdown Voltage	V _{(BR)CBO}	I _C =-100μA, I _E =0	-40	-	-	V
Emitter - Base Breakdown Voltage	V _{(BR)EBO}	I _E =-100μA, I _C =0	-5.0	-	-	V
Base Cutoff Current	I _{BL}	V _{CE} =-35V, V _{EB} =-0.4V	-	-	-100	nA
Collector Cutoff Current	I _{CEX}	V _{CE} =-35V, V _{EB} =-0.4V	-	-	-100	nA
DC Current Gain (Note 2)	h _{FE}	I _C =-0.1mA, V _{CE} =-1.0V I _C =-1.0mA, V _{CE} =-1.0V I _C =-10mA, V _{CE} =-1.0V I _C =-150mA, V _{CE} =-2.0V I _C =-500mA, V _{CE} =-2.0V	30 60 100 100 20	- - - - -	- - - 300 -	-
Collector - Emitter Saturation Voltage (Note 2)	V _{CE(SAT)}	I _C =-150mA, I _B =-15mA I _C =-500mA, I _B =-50mA	-	-	-0.40 -0.75	V
Base - Emitter Saturation Voltage (Note 2)	V _{BE(SAT)}	I _C =-150mA, I _B =-15mA I _C =-500mA, I _B =-50mA	0.75 -	- -	-0.95 -1.30	V
Collector - Base Capacitance	C _{CB0}	V _{CB} =-5V, I _E =0, f=1MHz	-	-	6.5	pF
Emitter - Base Capacitance	C _{EB0}	V _{CB} =-0.5V, I _C =0, f=1MHz	-	-	30	pF
Current Gain - Bandwidth Product	F _T	V _{CE} =-10V, I _C =-20mA, f=100MHz	200	-	-	MHz
Delay Time	t _d	V _{CC} =-30V, V _{BE} =-2.0V, I _C =-150mA, I _{B1} =-15mA	-	-	15	ns
Rise Time	t _r	V _{CC} =-30V, V _{BE} =-2.0V, I _C =-150mA, I _{B1} =-15mA	-	-	20	ns
Storage Time	t _s	V _{CC} =-30V, I _C =-150mA I _{B1} =I _{B2} =-15mA	-	-	225	ns
Fall Time	t _f	V _{CC} =-30V, I _C =-150mA I _{B1} =I _{B2} =-15mA	-	-	30	ns

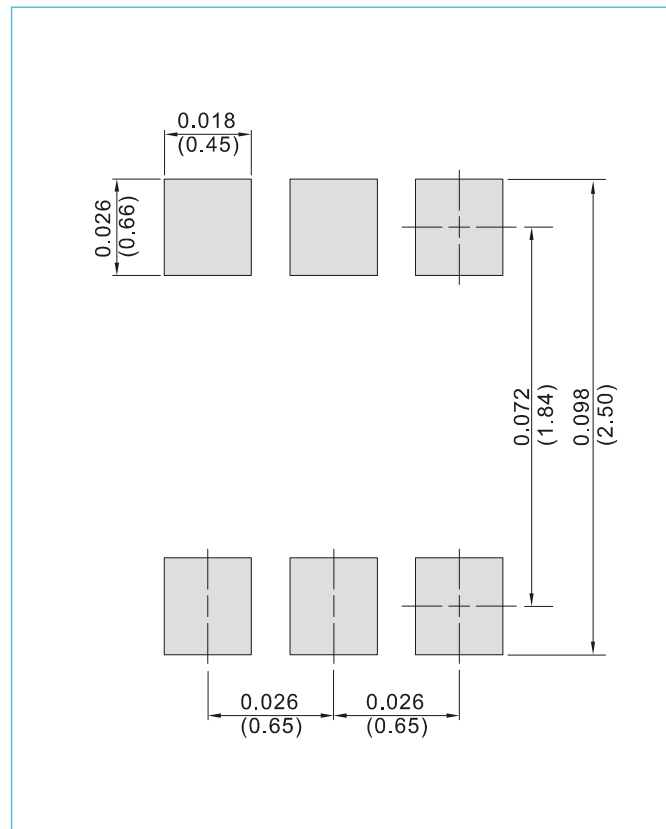


MMDT4403

MOUNTING PAD LAYOUT

SOT-363

Unit : inch(mm)



ORDER INFORMATION

- Packing information
 - T/R - 10K per 13" plastic Reel
 - T/R - 3K per 7" plastic Reel



MMDT4403

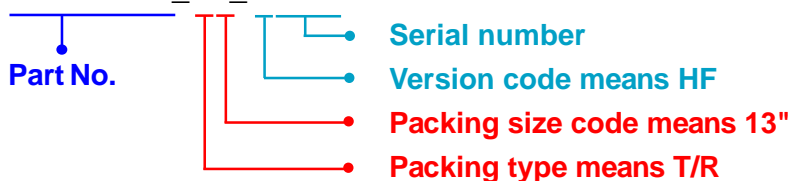
Part No_packing code_Version

MMDT4403_R1_00001

MMDT4403_R2_00001

For example :

RB500V-40_R2_00001



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)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	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			



MMDT4403

Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

单击下面可查看定价，库存，交付和生命周期等信息

[>>Panjit\(强茂\)](#)