

# MA700A-34

## SCHOTTKY BARRIERS SWITCHING DIODES

VOLTAGE	30 Volt	CURRENT	0.03 Ampere
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DO-34	Unit : inch(mm)
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### FEATURES

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Low Reverse Recovery Time
- Low Reverse Capacitance
- Lead free in compliance with EU RoHS 2011/65/EU directive

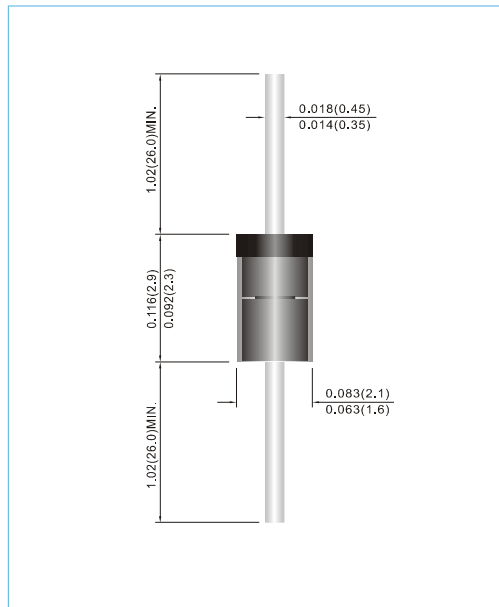
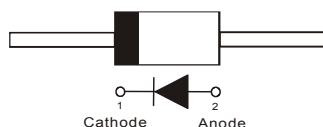
### MECHANICAL DATA

- Case: Molded Glass DO-34
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Ordering informatio

B/P - 2K per Bulk box

T/R - 10K per 15" plastic Reel

T/B - 5K per horiz. tape & Ammo box



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T<sub>J</sub> = 25°C unless otherwise noted)

PARAMETER	SYMBOL	MA700A-34	UNITS
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	30	V
Peak reverse voltage	V <sub>R</sub>	30	V
Forward Continuous Currentt	I <sub>F(AV)</sub>	30	mA
Peak Forward Surge Current	I <sub>FSM</sub>	150	mA
Maximum Forward Voltage, I <sub>F</sub> = 1mA I <sub>F</sub> = 30mA	V <sub>F</sub>	0.4 1.0	V
Maximum Reverse Current VR=30V	I <sub>R</sub>	0.15	μA
Typical Junction Capacitance	C <sub>J</sub>	1.3(TYP.)	pF
Typical Reverse Recovery I <sub>F</sub> =I <sub>R</sub> =10mA t <sub>rr</sub> =1mA ,R <sub>L</sub> =100Ω	t <sub>rr</sub>	1.0(TYP.)	ns
Rectifier Efficiency V <sub>I</sub> =3V f=30MHz C <sub>L</sub> =10pF R <sub>L</sub> =3.9KΩ	η	60(TYP)	%
Junction Temperature	T <sub>J</sub>	-55 to + 125	°C
Storage Temperature	T <sub>STG</sub>	-55 to + 150	°C

### NOTE :

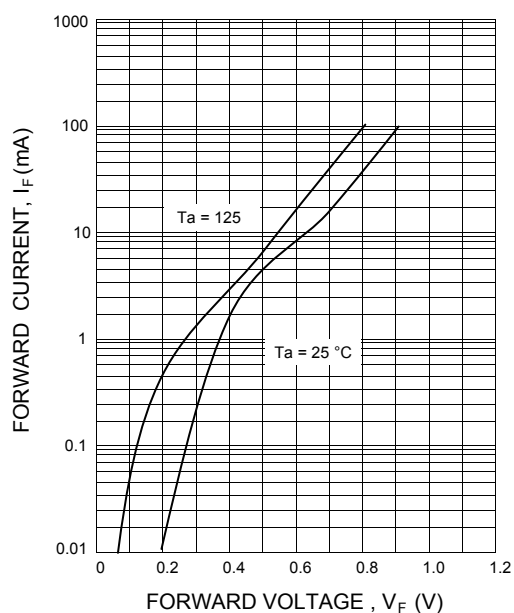
1. C<sub>J</sub> at V<sub>R</sub>=0, f=1MHZ

2. From I<sub>F</sub>=50mA to I<sub>R</sub>=200mA, R<sub>L</sub>=100Ω

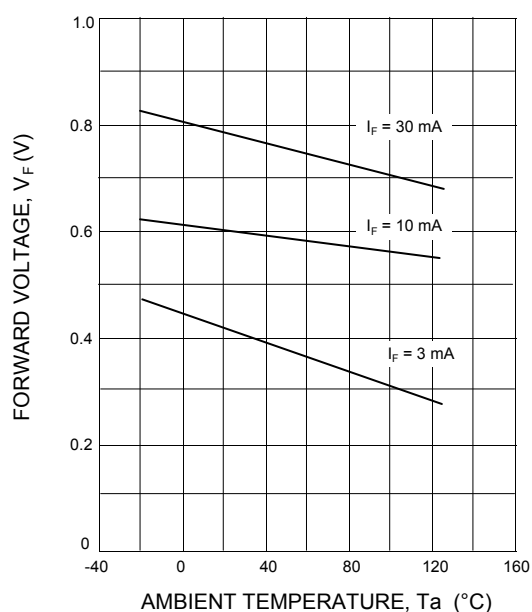
# MA700A-34

## RATING AND CHARACTERISTIC CURVES

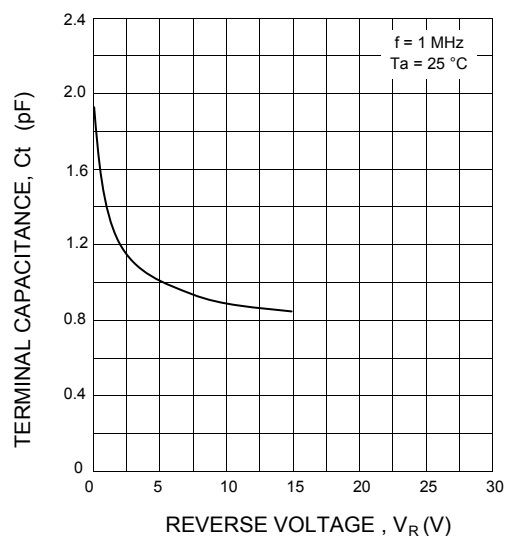
**FIG. 1 - FORWARD CURRENT VS. FORWARD VOLTAGE**



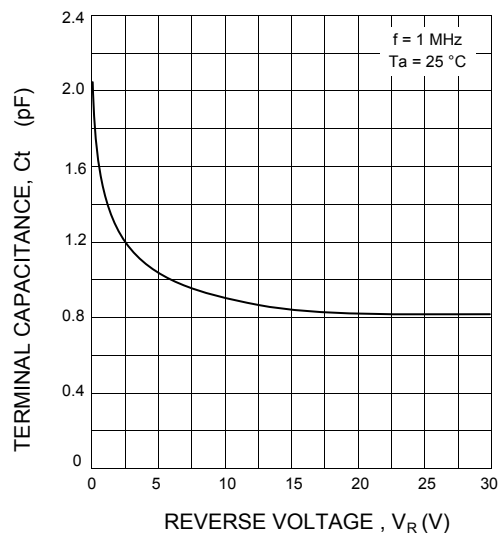
**FIG. 2 - FORWARD VOLTAGE VS. AMBIENT TEMPERATURE**



**FIG. 3 - TERMINALS CAPACITANCE VS. REVERSE VOLTAGE : MA700**



**FIG. 4 - TERMINALS CAPACITANCE VS. REVERSE VOLTAGE : MA700A**



## MA700A-34

### Part No\_packing code\_Version

MA700A-34\_AX\_10001

MA700A-34\_AY\_10001

MA700A-34\_R2\_10001

MA700A-34\_B0\_10001

For example :

**RB500V-40\_R2\_00001**

Part No.

Serial number

Version code means HF

Packing size code means 13"

Packing type means T/R

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

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