

MA700A

SCHOTTKY BARRIERS SWITCHING DIODES

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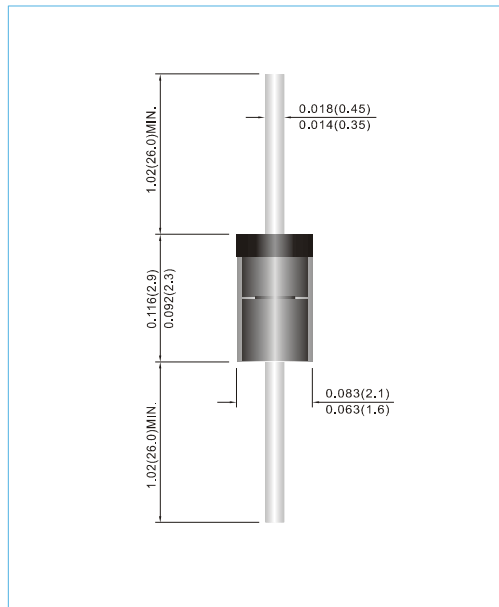
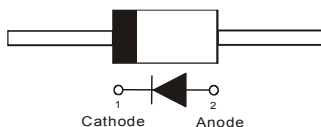
FEATURES

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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	MA700A-34	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	30	V
Peak reverse voltage	V_R	30	V
Forward Continuous Currentt	$I_{F(AV)}$	30	mA
Peak Forward Surge Current	I_{FSM}	150	mA
Maximum Forward Voltage, $I_F = 1\text{mA}$ $I_F = 30\text{mA}$	V_F	0.4 1.0	V
Maximum Reverse Current VR=30V	I_R	0.15	μA
Typical Junction Capacitance	C_J	1.3(TYP.)	pF
Typical Reverse Recovery $I_F = I_R = 10\text{mA}$ $t_{rr} = 1\text{mA}$, $R_L = 100\Omega$	t_{rr}	1.0(TYP.)	ns
Rectifier Efficiency $V_F = 3\text{V}$ $f = 30\text{MHz}$ $C_L = 10\text{pF}$ $R_L = 3.9\text{K}\Omega$	η	60(TYP)	%
Junction Temperature	T_J	-55 to +125	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55 to +150	$^{\circ}\text{C}$

NOTE :

1. CJ at VR=0, f=1MHZ
2. From IF=50mA to IR=200mA, RL=100Ω

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RATING AND CHARACTERISTIC CURVES

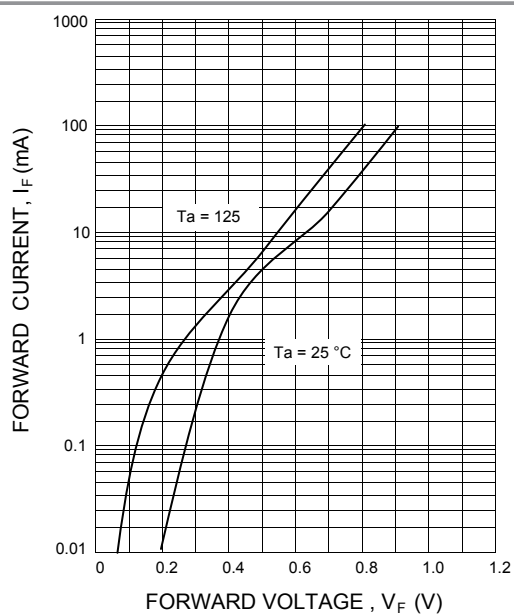


FIG. 1 - FORWARD CURRENT VS. FORWARD VOLTAGE

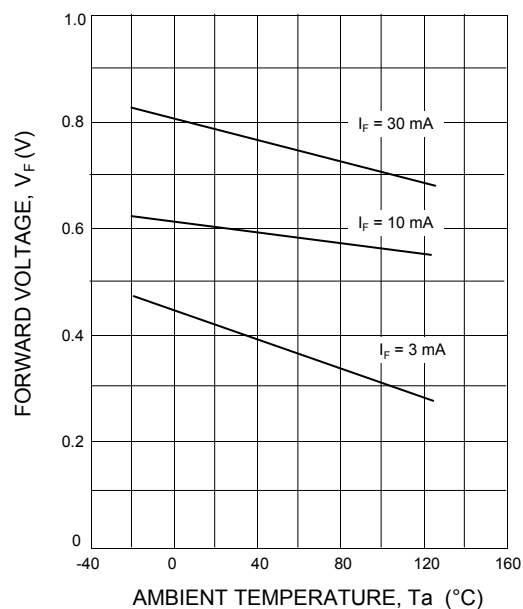


FIG. 2 - FORWARD VOLTAGE VS. AMBIENT TEMPERATURE

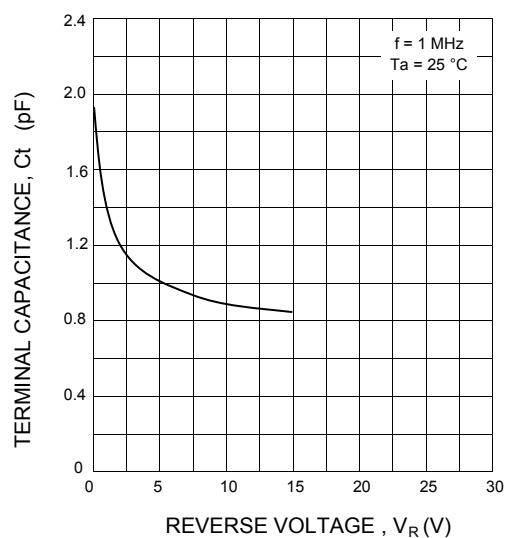


FIG. 3 - TERMINALS CAPACITANCE VS. REVERSE VOLTAGE : MA700

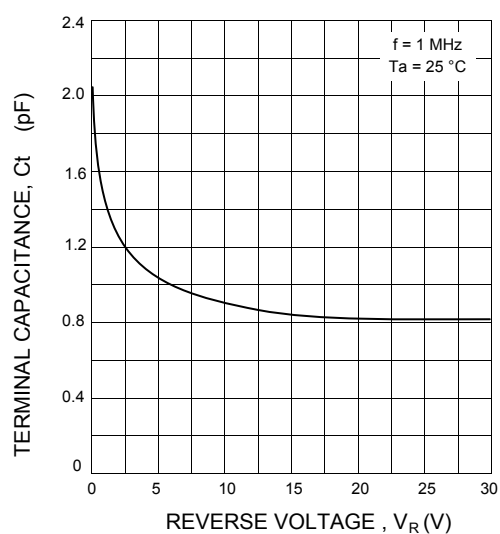


FIG. 4 - TERMINALS CAPACITANCE VS. REVERSE VOLTAGE : MA700A

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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 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			

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