

### FEATURES

- Low forward voltage drop
- Satisfactory wave detection efficiency
- Small temperature coefficient of forward characteristics
- Extremely low reverse current

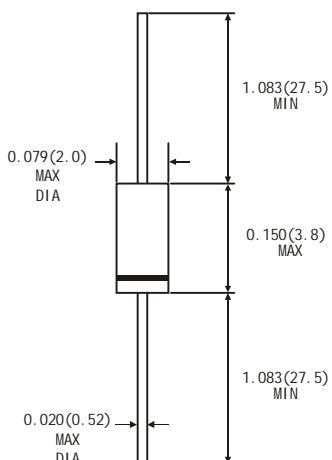
These products are ideal for use in ordinary wave detection and super high speed switching circuits

### MECHANICAL DATA

- Case: DO-35 glass case
- Polarity: Color band denotes cathode end
- Product Sign: Marking MA700 or MA700A on body

Weight: Approx. 0.13 gram

**DO-35**



Dimensions in inches and (millimeters)

### ABSOLUTE RATINGS(LIMITING VALUES)

(TA = 25°C)

Parameters	Symbols	Value	Units
Reverse voltage	MA700	15	V
	MA700A	30	
Peak reverse voltage	MA700	15	V
	MA700A	30	
Average rectified current	Io	30	mA
Peak forward current	Ifm	150	mA
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

### ELECTRICAL CHARACTERISTICS

(TA = 25°C)

Parameters	Symbol	Test Conditions	Min.	Typ.	Max.	Units
Forward voltage(DC)	Vf1	If=1mA			0.4	V
	Vf2	If=30mA			1	V
Reverse Current	Ir	Vr=15V			100	nA
		Vr=30V			150	
Junction Capacitance	Cj	Vr=1V f=1MHz		1.3		pF
Rectifier efficiency	η	Vin=3Vrms f=30MHz Rl=3.9kΩ Cl=10pF		60		%
Reverse recovery time	trr	If=Ir=10mA Ir=1mA, Rl=100kΩ		1		ns

Note: 1.Schottky barrier rectifier diode is sensitive to electric shock(static electricity, etc.).Due attention must be paid on charge of a human body and leakage from the equipment used.

# RATINGS AND CHARACTERISTICS CURVES MA700,MA700A

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Figure 1. Forward voltage VS. forward current

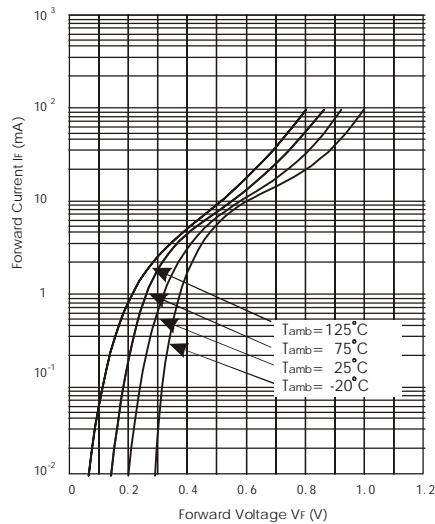


Figure 2. Forward voltage VS.Ambient Tempereratu

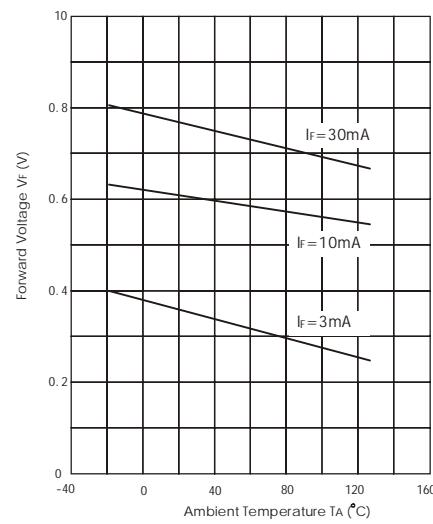


Figure 3. MA700 Reserse characteristics

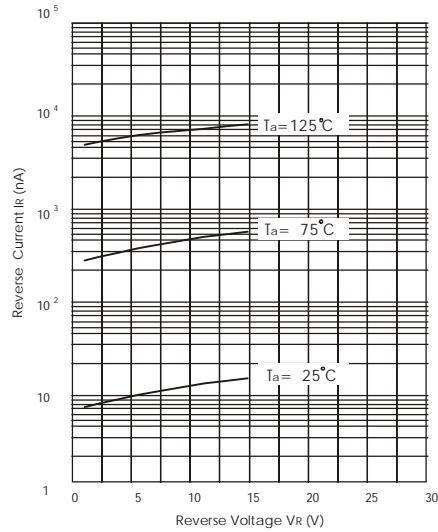
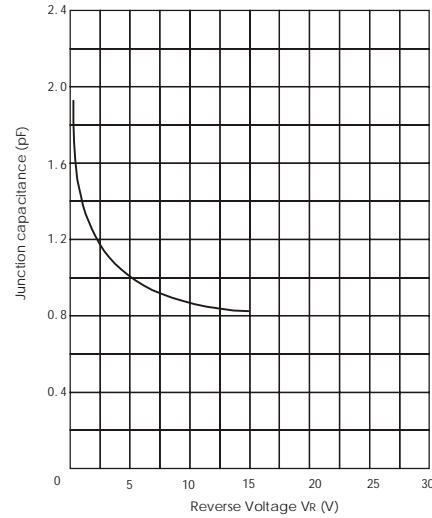


Figure 4. MA700 Junction Capacitance



# RATINGTS AND CHARACTERISTICS CURVES MA700,MA700A

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Figure 5. MA700 reverse current temperature characteristics

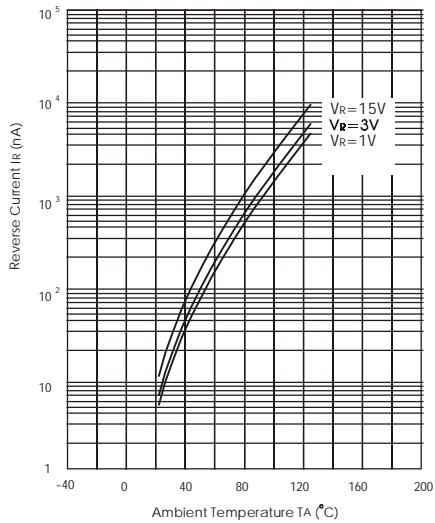


Figure 7. MA700A Junction Capacitance

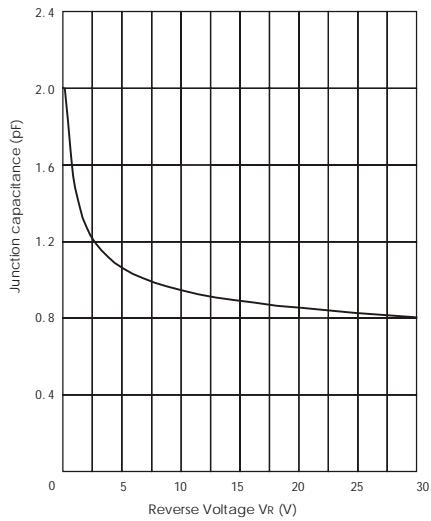


Figure 6. MA700A reverse characteristics

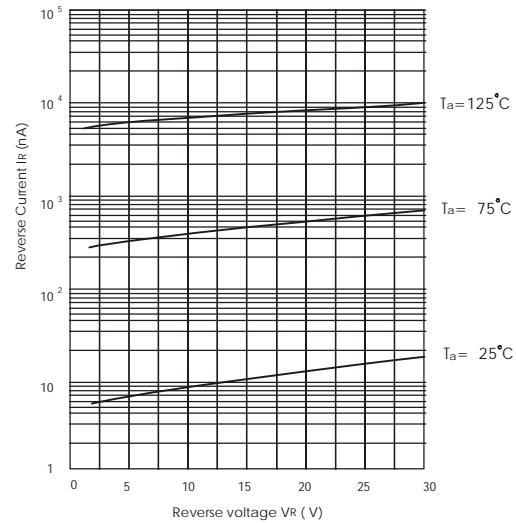


Figure 8. MA700A reverse current temperature characteristics

