

# MA700 THRU MA700A

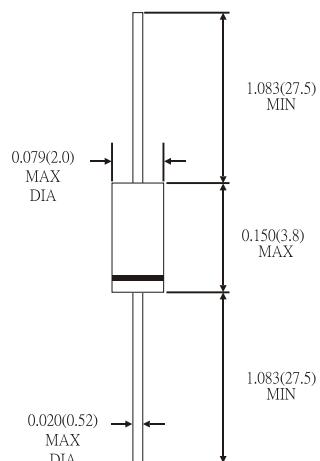
## SMALL SIGNAL SCHOTTKY DIODES

### 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

### DO-35



Dimensions in inches and (millimeters)

### 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

### ABSOLUTE RATINGS(LIMITING VALUES)

(TA= 25°C)

Parameters		Symbols	Value	Units
Reverse voltage	MA700	VR	15	V
	MA700A		30	
Peak reverse voltage	MA700	VRM	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	Ir=1mA			0.4	V
	VF2	Ir=30mA			1	V
Reverse Current	MA700	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	t <sub>rr</sub>	Ir=I <sub>r</sub> =10mA I <sub>rr</sub> =1mA, R <sub>l</sub> =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 THRU MA700A

Figure 1. Forward voltage VS. forward current

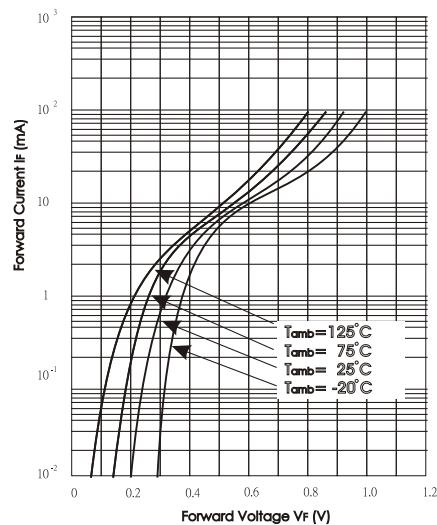


Figure 2. Forward voltage VS.Ambient Tempereratu

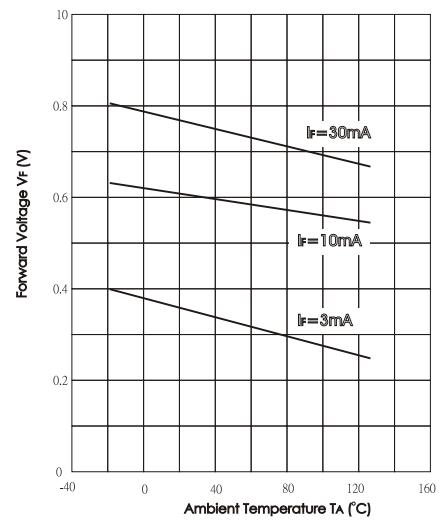


Figure 3. MA700 Reserse characteristics

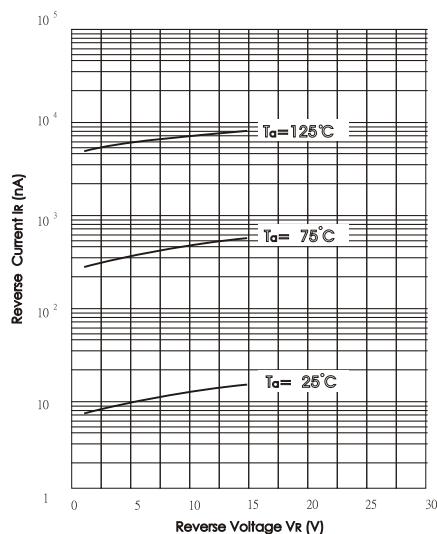
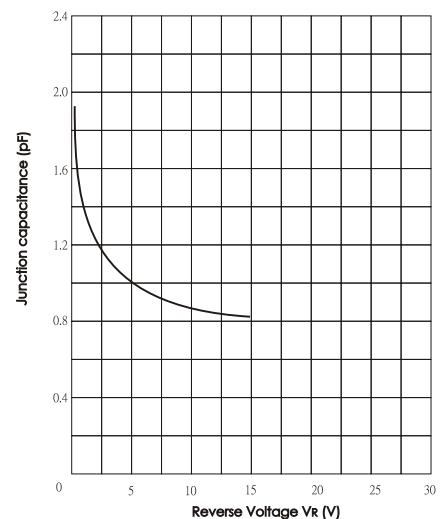


Figure 4. MA700 Junction Capacitance



# RATINGS AND CHARACTERISTICS CURVES MA700 THRU MA700A

Figure 5. MA700 reverse current temperature characteristics

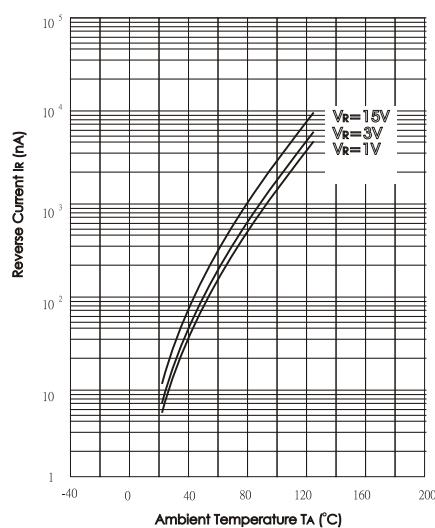


Figure 6. MA700A reverse characteristics

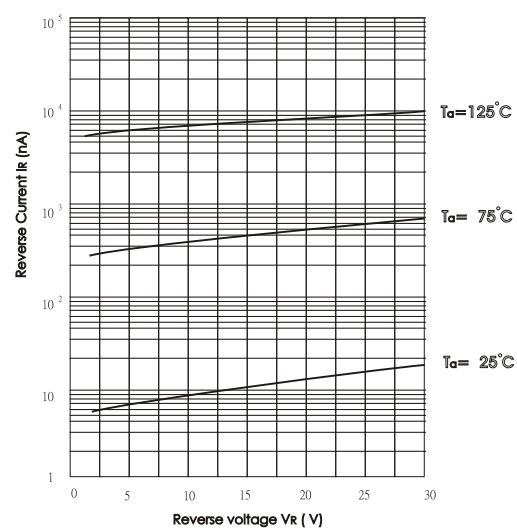


Figure 7. MA700A Junction Capacitance

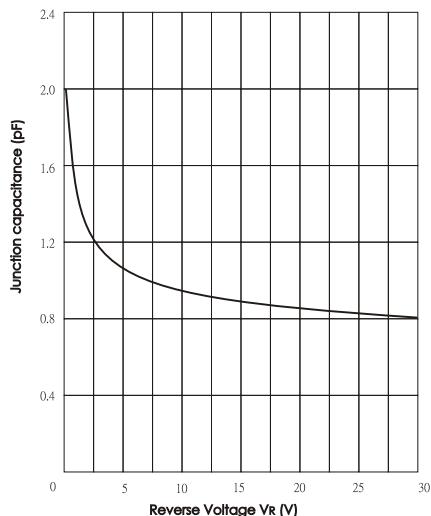


Figure 8. MA700A reverse current temperature characteristics

