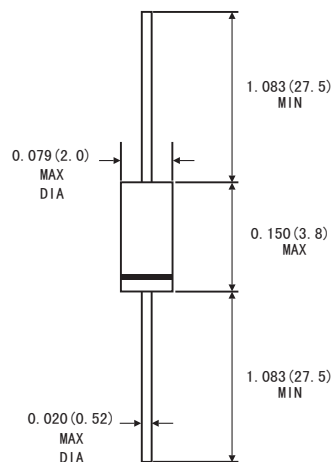


FEATURES

- 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
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Component in accordance to RoHS 2011/65/EU

DO-35



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)

Parameters	Symbols	Value	Units
Reverse voltage	MA700	15	V
	MA700A	30	
Peak reverse voltage	MA700	15	V
	MA700A	30	
Average rectified current	I_o	30	mA
Peak forward current	I_{FM}	150	mA
Junction temperature	T_J	125	°C
Storage temperature	T_{STG}	-55 to +125	°C

ELECTRICAL CHARACTERISTICS (T_A = 25°C)

Parameters	Symbols	Test Conditions	Min.	Typ.	Max.	Units
Forward voltage (DC)	V _{F1}	I _F = 1mA			0.4	V
	V _{F2}	I _F = 30mA			1	V
Reverse Current	I _R	V _R = 15V			100	nA
		V _R = 30V			150	
Junction Capacitance	C _J	V _R = 1V f = 1MHz		1.3		pF
Rectifier efficiency	η	V _{in} = 3Vrms f = 30MHz R _L = 3.9kΩ C _L = 10pF		60		%
Reverse recovery time	t _{rr}	I _F = I _R = 10mA I _R = 1mA, R _L = 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

Figure 1. Forward voltage VS. forward current

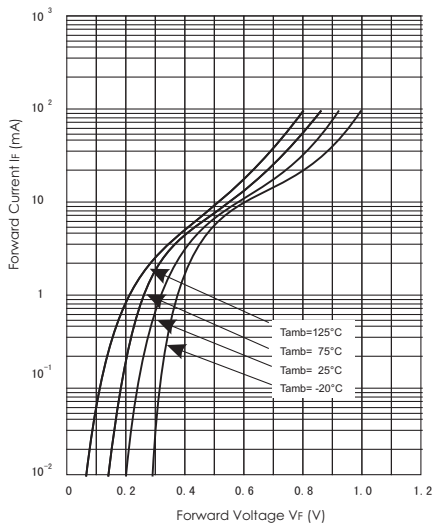


Figure 3. MA700 Reverse characteristics

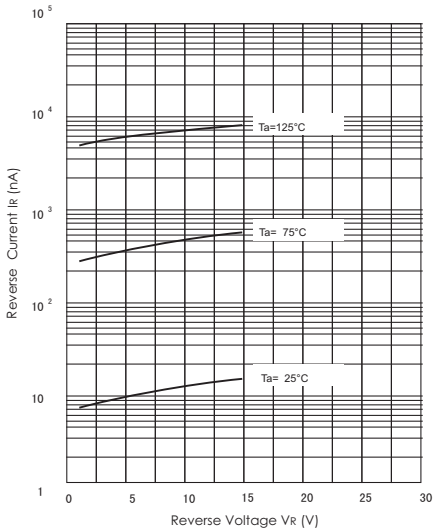


Figure 2. Forward voltage VS. Ambient Temperature

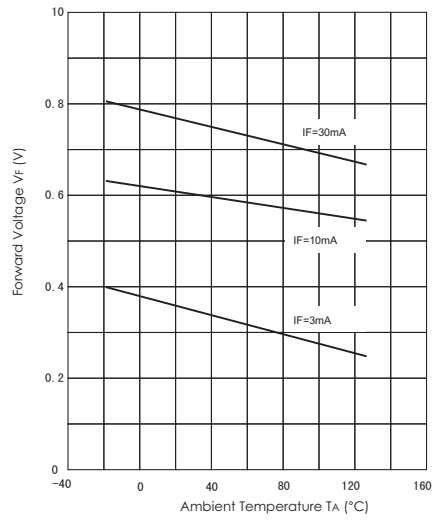


Figure 4. MA700 Junction Capacitance

