

MA700, MA700A

PRV : 15 - 30 V

I_o : 30 mA

FEATURES :

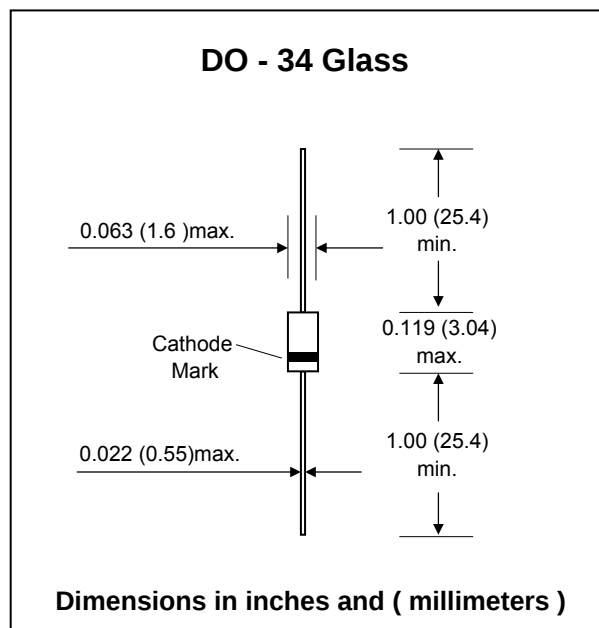
- * Low forward voltage V_F
- * Small temperature coefficient of forward characteristic
- * Small reverse current I_R
- * High-density mounting (5mm pitch insertion) is possible
- * Pb / RoHS Free

MECHANICAL DATA :

Case: DO-34 Glass Case

Weight: approx. 0.11g

SCHOTTKY BARRIER DIODES



Maximum Ratings and Thermal Characteristics (Rating at 25 °C ambient temperature unless otherwise specified.)

Parameter	Symbol	MA700	MA700A	Unit
Reverse Voltage	V _R	15	30	V
Maximum Peak Reverse Voltage	V _{RM}	15	30	V
Forward Current	I _F	30		mA
Peak Forward Current	I _{FM}	150		mA
Junction Temperature	T _J	125		°C
Storage temperature range	T _{STG}	-55 to + 125		°C

Electrical Characteristics (T_a = 25 °C ± 3 °C)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Current	I _R	V _R = 15 V	-	-	100	nA
		V _R = 30 V	-	-	150	nA
Forward Voltage	V _F	I _F = 1 mA	-	-	0.4	mV
		I _F = 30 mA	-	-	1.0	mV
Terminal Capacitance	C _t	V _R = 1 V, f = 1MHz	-	1.3	-	pF
Reverse recovery time	T _{rr}	I _F = I _R = 10 mA I _{rr} = 1mA, R _L = 100Ω	-	1.0	-	ns

RATING AND CHARACTERISTIC CURVES (MA700 - MA700A)

FIG. 1 - FORWARD CURRENT VS.
FORWARD VOLTAGE

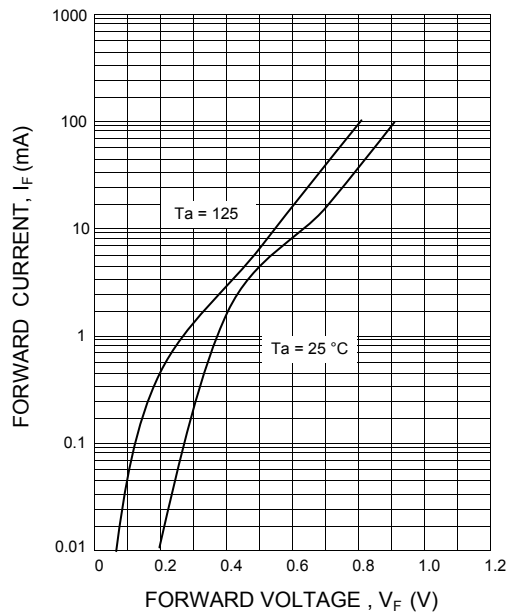


FIG. 2 - FORWARD VOLTAGE VS.
AMBIENT TEMPERATURE

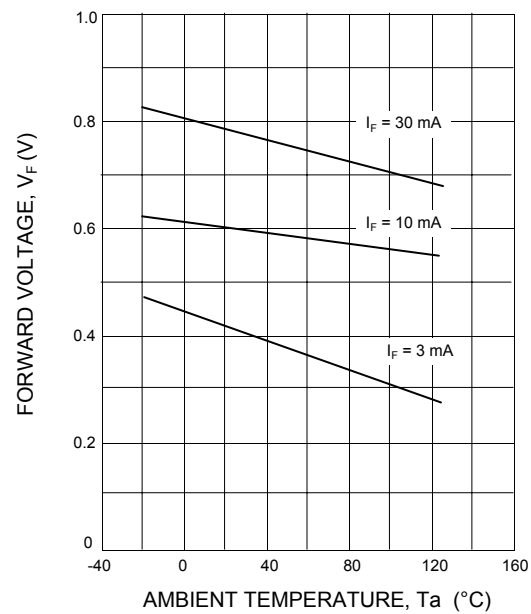


FIG. 3 - TERMINALS CAPACITANCE VS.
REVERSE VOLTAGE : MA700

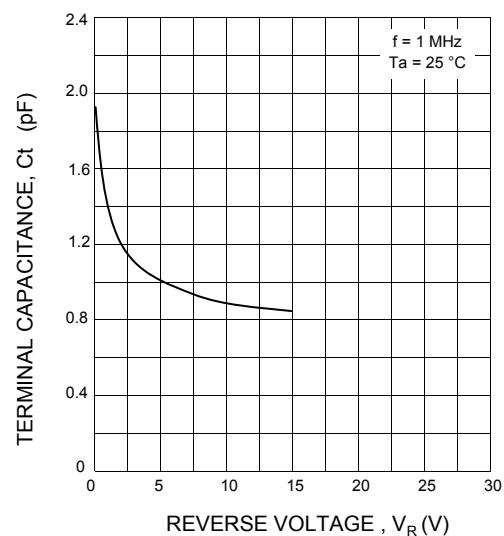
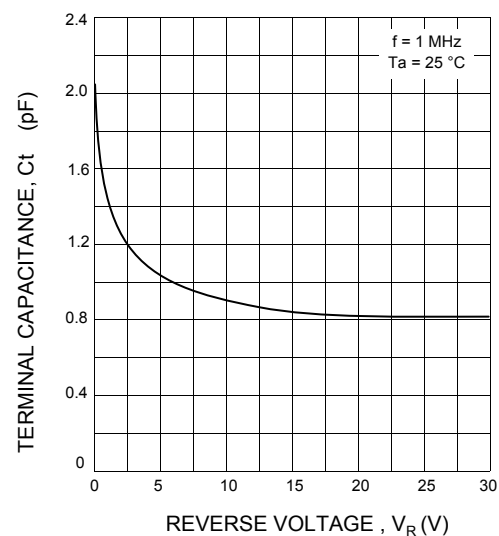
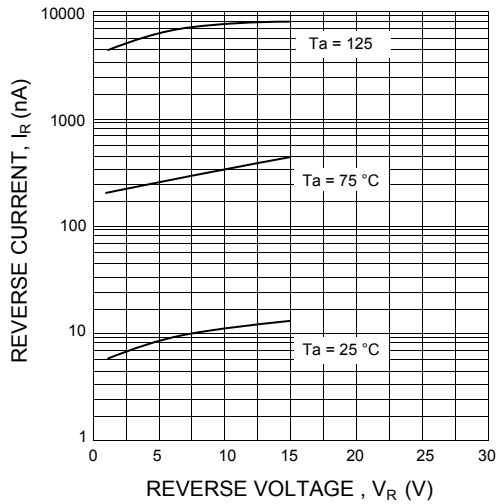


FIG. 4 - TERMINALS CAPACITANCE VS.
REVERSE VOLTAGE : MA700A

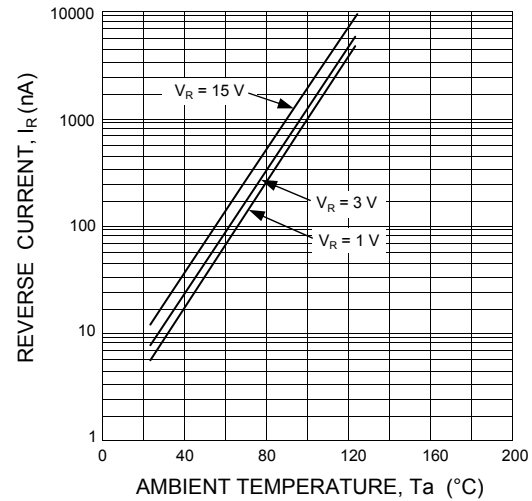


RATING AND CHARACTERISTIC CURVES (MA700 - MA700A)

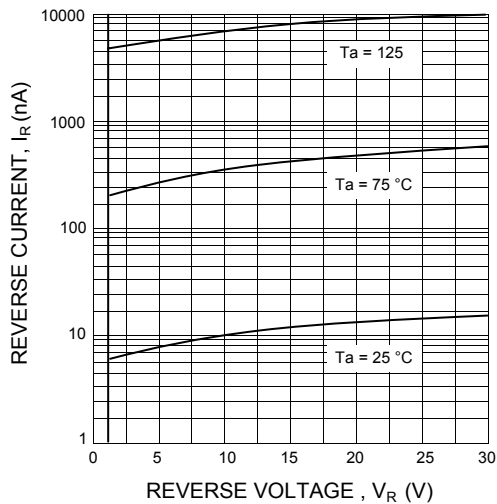
**FIG. 5 - REVERSE CURRENT VS.
REVERSE VOLTAGE : MA700**



**FIG. 6 - REVERSE CURRENT VS.
AMBIENT TEMPERATURE : MA700**



**FIG. 5 - REVERSE CURRENT VS.
REVERSE VOLTAGE : MA700A**



**FIG. 6 - REVERSE CURRENT VS.
AMBIENT TEMPERATURE : MA700A**

