

MA700, MA700A

PRV : 15 - 30 V

Io : 30 mA

FEATURES :

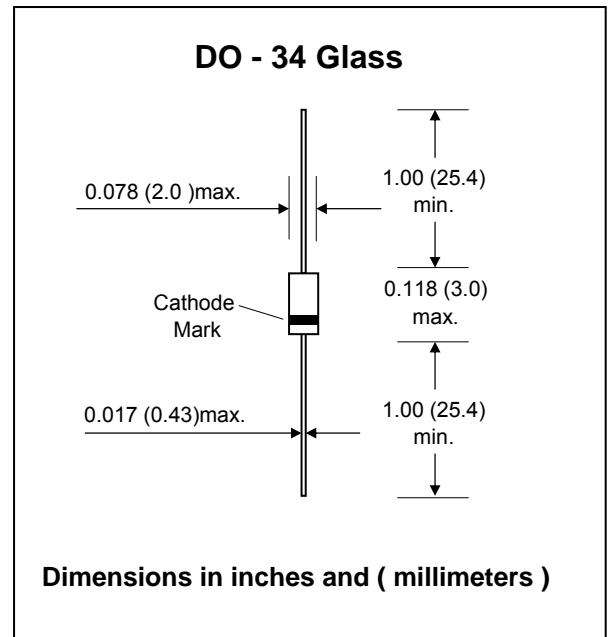
- * Low forward voltage V_F
- * Small temperature coefficient of forward characteristic
- * Small reverse current I_R
- * High-density mounting (5mm pitch insertion) is possible
- * Pb / RoHS Free

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 ($T_a = 25\text{ }^\circ\text{C} \pm 3\text{ }^\circ\text{C}$)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Current	I_R	$V_R = 15\text{ V}$	-	-	100	nA
		$V_R = 30\text{ V}$	-	-	150	nA
Forward Voltage	V_F	$I_F = 1\text{ mA}$	-	-	0.4	mV
		$I_F = 30\text{ mA}$	-	-	1.0	mV
Terminal Capacitance	C_t	$V_R = 1\text{ V}, f = 1\text{ MHz}$	-	1.3	-	pF
Reverse recovery time	T_{rr}	$I_F = I_R = 10\text{ mA}$ $I_{rr} = 1\text{ mA}, R_L = 100\Omega$	-	1.0	-	ns

RATING AND CHARACTERISTIC CURVES (MA700 - MA700A)

FIG. 1 - FORWARD CURRENT VS. FORWARD VOLTAGE

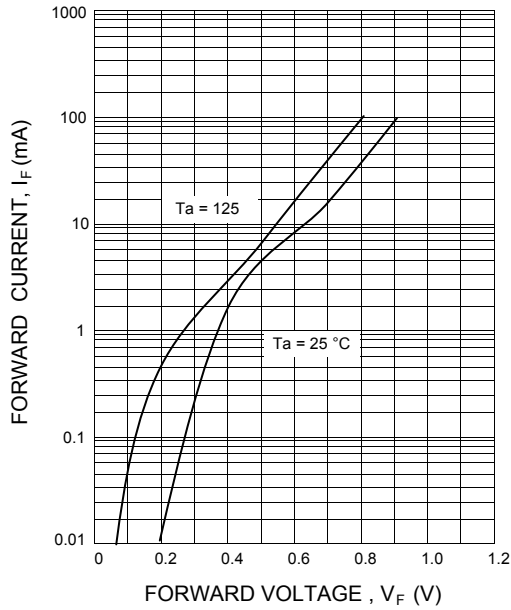


FIG. 2 - FORWARD VOLTAGE VS. AMBIENT TEMPERATURE

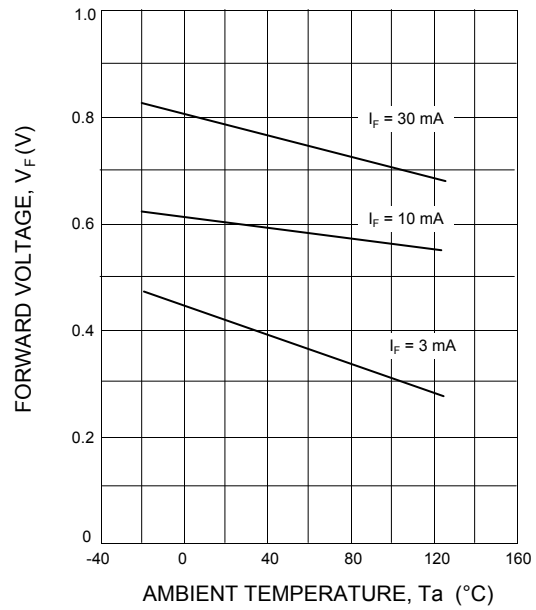


FIG. 3 - TERMINALS CAPACITANCE VS. REVERSE VOLTAGE : MA700

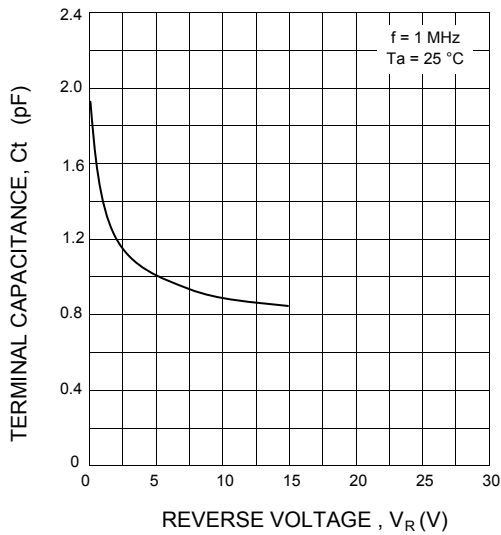
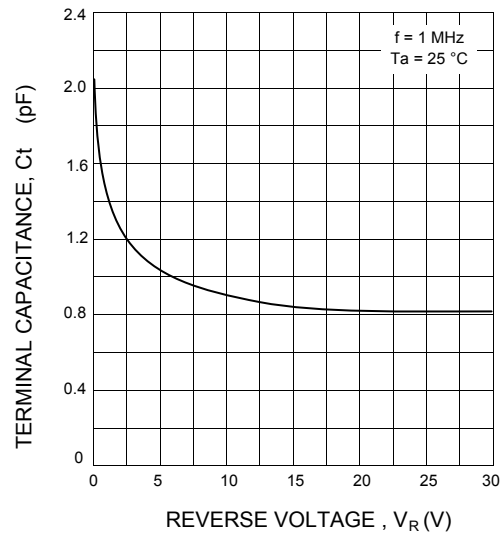


FIG. 4 - TERMINALS CAPACITANCE VS. REVERSE VOLTAGE : MA700A



RATING AND CHARACTERISTIC CURVES (MA700 - MA700A)

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

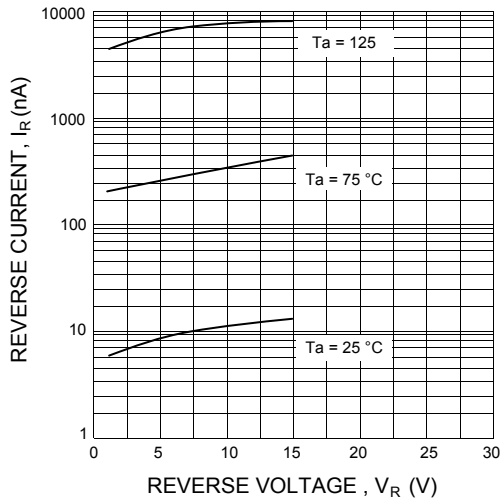


FIG. 6 - REVERSE CURRENT VS. AMBIENT TEMPERATURE : MA700

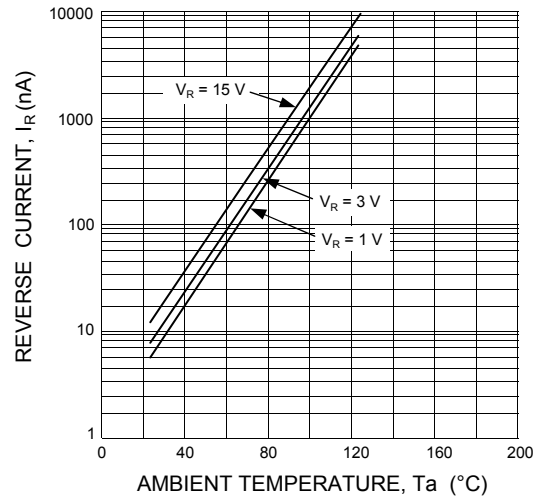


FIG. 5 - REVERSE CURRENT VS. REVERSE VOLTAGE : MA700A

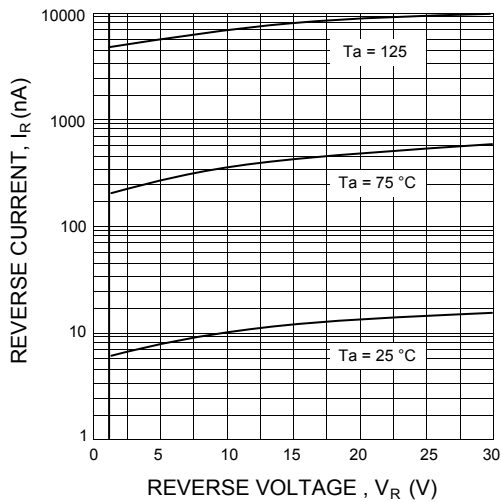


FIG. 6 - REVERSE CURRENT VS. AMBIENT TEMPERATURE : MA700A

