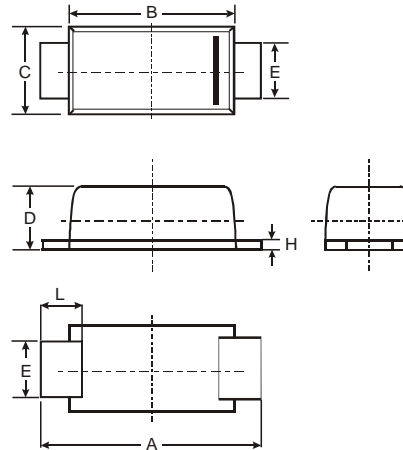


Features

- Low forward voltage V_F
- Small temperature coefficient of forward characterisble
- Small reverse current I_R

Mechanical Data

- Case: SOD-123FL
plastic body over passivated junction
- Terminals : Plated axial leads,
- solderable per MIL-STD-750, Method 2026
- Polarity : Color band denotes cathode end
- Mounting Position : Any
- Weight: 0.0007 ounce, 0.02 grams



SOD-123FL			
Dim	Min	Max	Typ
A	3.58	3.72	3.65
B	2.72	2.78	2.75
C	1.77	1.83	1.80
D	1.02	1.08	1.05
E	0.097	1.03	1.00
H	0.13	0.17	0.15
L	0.53	0.57	0.55
All Dimensions in mm			

Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

Parameter	Symbol	MA700W	Unit
Reverse Voltage	V_R	30	V
Maximum Peak Reverse Voltage	V_{RM}	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

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

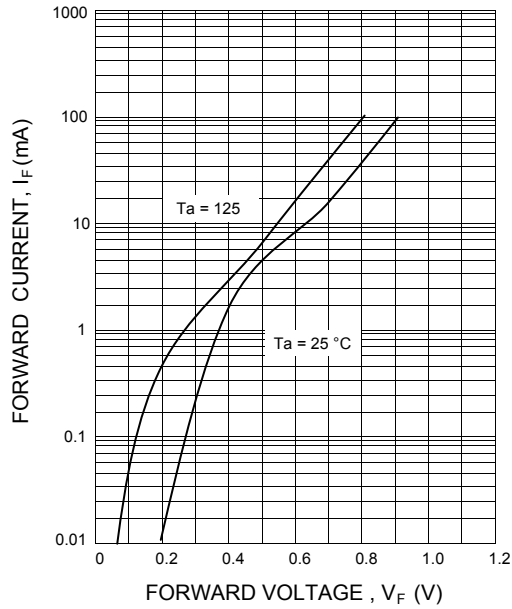


FIG. 2 - FORWARD VOLTAGE VS. AMBIENT TEMPERATURE

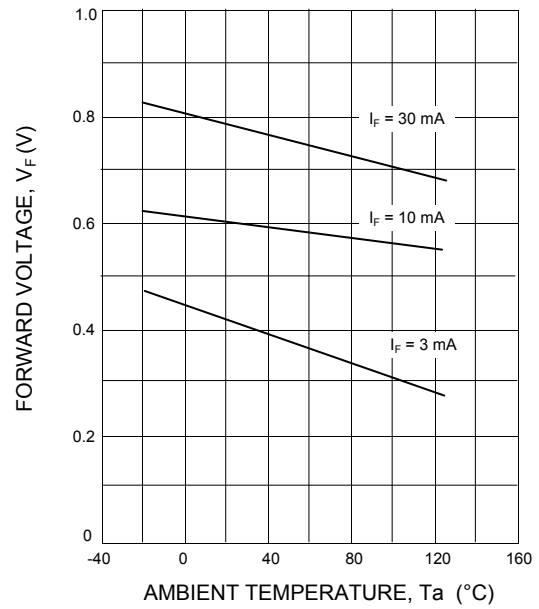


FIG. 3 - TERMINALS CAPACITANCE VS. REVERSE VOLTAGE : MA700

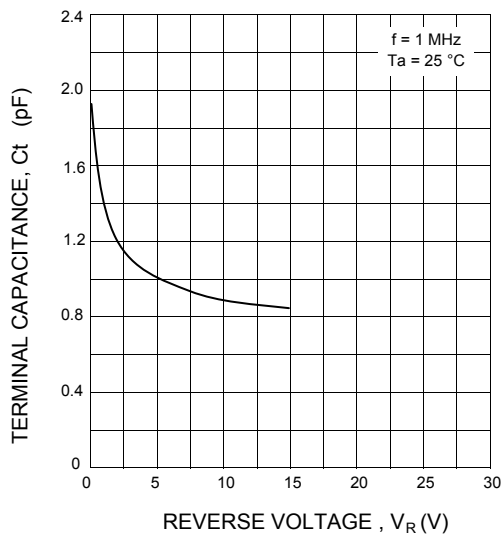
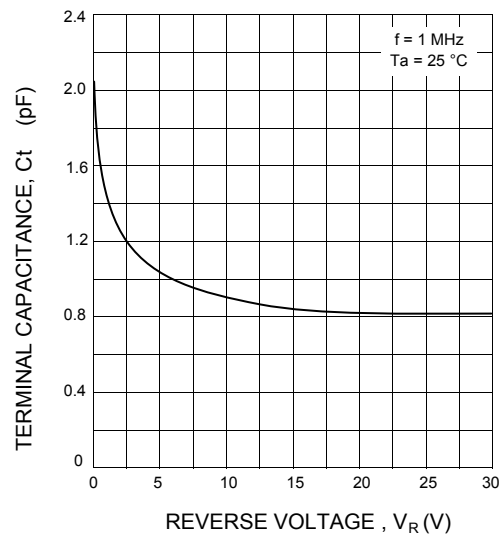


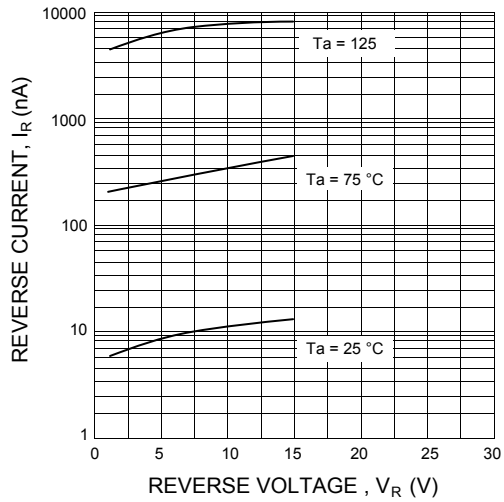
FIG. 4 - TERMINALS CAPACITANCE VS. REVERSE VOLTAGE : MA700A



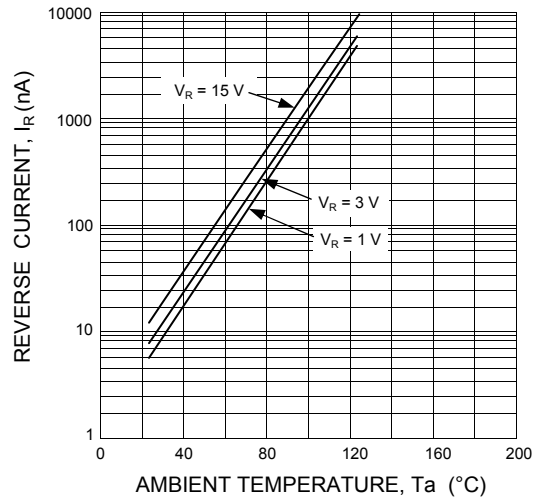


RATING AND CHARACTERISTIC CURVES (MA700 - MA700A)

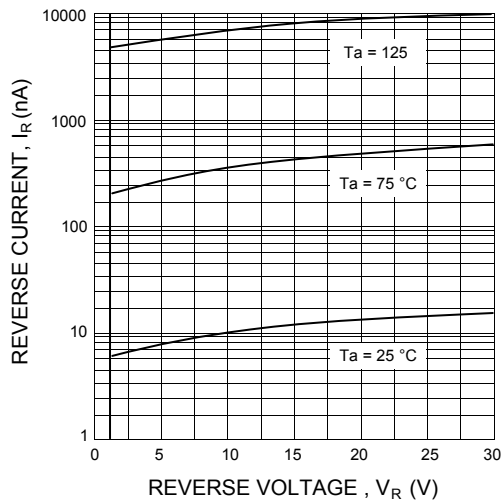
**FIG. 5 - REVERSE CURRENT VS.
REVERSE VOLTAGE : MA700**



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



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



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

