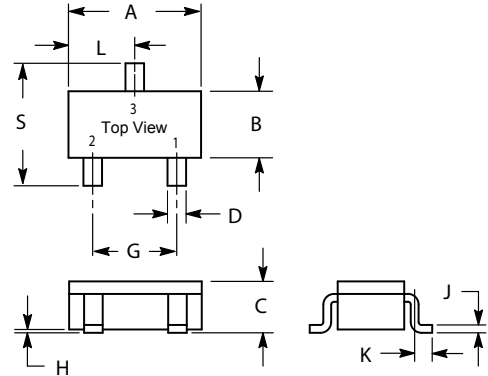
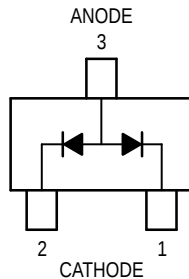


RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free



#### MAXIMUM RATINGS ( $T_A = 25^\circ\text{C}$ )

| Rating                     |           | Symbol          | Value | Unit |
|----------------------------|-----------|-----------------|-------|------|
| Reverse Voltage            | M1MA151WA | $V_R$           | 40    | Vdc  |
|                            | M1MA152WA |                 | 80    |      |
| Peak Reverse Voltage       | M1MA151WA | $V_{RM}$        | 40    | Vdc  |
|                            | M1MA152WA |                 | 80    |      |
| Forward Current            | Single    | $I_F$           | 100   | mA   |
|                            | Dual      |                 | 150   |      |
| Peak Forward Current       | Single    | $I_{FM}$        | 225   | mA   |
|                            | Dual      |                 | 340   |      |
| Peak Forward Surge Current | Single    | $I_{FSM}^{(1)}$ | 500   | mA   |
|                            | Dual      |                 | 750   |      |

| SC-59               |      |      |
|---------------------|------|------|
| Dim                 | Min  | Max  |
| A                   | 2.70 | 3.10 |
| B                   | 1.30 | 1.70 |
| C                   | 1.00 | 1.30 |
| D                   | 0.35 | 0.50 |
| G                   | 1.70 | 2.30 |
| H                   | 0.00 | 0.10 |
| J                   | 0.10 | 0.26 |
| K                   | 0.20 | 0.60 |
| L                   | 1.25 | 1.65 |
| S                   | 2.25 | 3.00 |
| All Dimension in mm |      |      |

#### THERMAL CHARACTERISTICS

| Rating               | Symbol    | Max         | Unit             |
|----------------------|-----------|-------------|------------------|
| Power Dissipation    | $P_D$     | 200         | mW               |
| Junction Temperature | $T_J$     | 150         | $^\circ\text{C}$ |
| Storage Temperature  | $T_{stg}$ | -55 to +150 | $^\circ\text{C}$ |

#### DEVICE MARKING

M1MA151WA = MN; M1MA152WA = MO

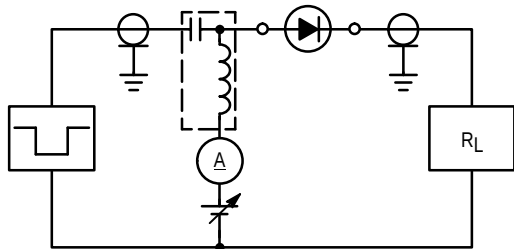
#### ELECTRICAL CHARACTERISTICS ( $T_A = 25^\circ\text{C}$ )

| Characteristic                  |           | Symbol         | Condition                                                                                  | Min | Max | Unit          |
|---------------------------------|-----------|----------------|--------------------------------------------------------------------------------------------|-----|-----|---------------|
| Reverse Voltage Leakage Current | M1MA151WA | $I_R$          | $V_R = 35\text{ V}$                                                                        | —   | 0.1 | $\mu\text{A}$ |
|                                 | M1MA152WA |                | $V_R = 75\text{ V}$                                                                        | —   | 0.1 |               |
| Forward Voltage                 |           | $V_F$          | $I_F = 100\text{ mA}$                                                                      | —   | 1.2 | Vdc           |
| Reverse Breakdown Voltage       | M1MA151WA | $V_R$          | $I_R = 100\text{ }\mu\text{A}$                                                             | 40  | —   | Vdc           |
|                                 | M1MA152WA |                |                                                                                            | 80  | —   |               |
| Diode Capacitance               |           | $C_D$          | $V_R = 0, f = 1.0\text{ MHz}$                                                              | —   | 15  | pF            |
| Reverse Recovery Time           |           | $t_{rr}^{(2)}$ | $I_F = 10\text{ mA}, V_R = 6.0\text{ V}, R_L = 100\text{ }\Omega, I_{rr} = 0.1\text{ I}_R$ | —   | 10  | ns            |

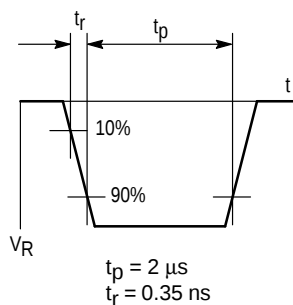
1.  $t = 1\text{ SEC}$

2.  $t_{rr}$  Test Circuit

**RECOVERY TIME EQUIVALENT TEST CIRCUIT**



**INPUT PULSE**



**OUTPUT PULSE**

