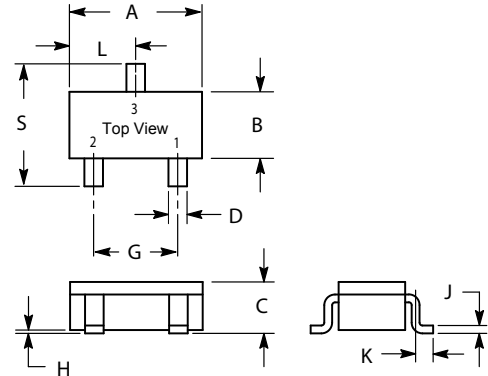
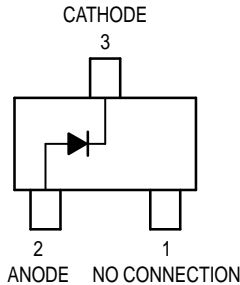


RoHS Compliant Product

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



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

Rating	Symbol	Value	Unit
Reverse Voltage	M1MA151K	40	Vdc
	M1MA152K	80	
Peak Reverse Voltage	M1MA151K	40	Vdc
	M1MA152K	80	
Forward Current	$I_F$	100	mAdc
Peak Forward Current	$I_{FM}$	225	mAdc
Peak Forward Surge Current	$I_{FSM}^{(1)}$	500	mAdc

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**

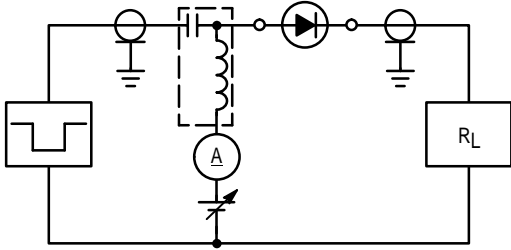
M1MA151K = MH; M1MA152K = MI

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

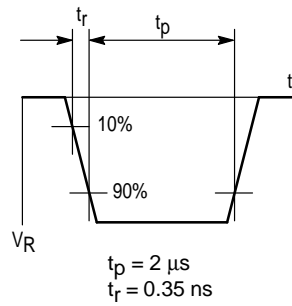
Characteristic	Symbol	Condition	Min	Max	Unit
Reverse Voltage Leakage Current	M1MA151K	$V_R = 35\text{ V}$	—	0.1	$\mu\text{Adc}$
	M1MA152K	$V_R = 75\text{ V}$	—	0.1	
Forward Voltage	$V_F$	$I_F = 100\text{ mA}$	—	1.2	Vdc
Reverse Breakdown Voltage	M1MA151K	$I_R = 100\ \mu\text{A}$	40	—	Vdc
	M1MA152K		80	—	
Diode Capacitance	$C_D$	$V_R = 0, f = 1.0\text{ MHz}$	—	2.0	pF
Reverse Recovery Time	$t_{rr}^{(2)}$	$I_F = 10\text{ mA}, V_R = 6.0\text{ V}, R_L = 100\ \Omega, I_{rr} = 0.1\ I_R$	—	3.0	ns

1.  $t = 1\text{ SEC}$
2.  $t_{rr}$  Test Circuit

### RECOVERY TIME EQUIVALENT TEST CIRCUIT



### INPUT PULSE



### OUTPUT PULSE

