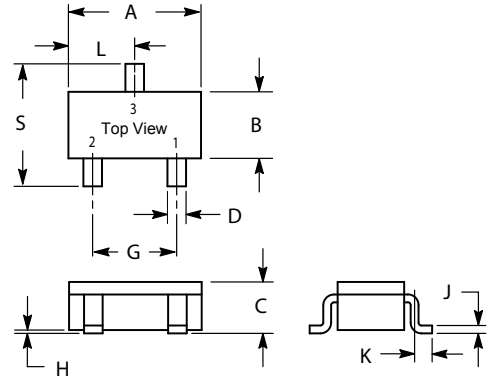
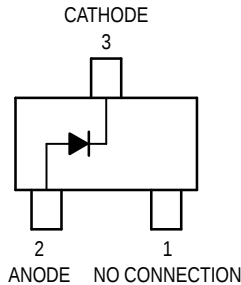


RoHS Compliant Product

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



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

Rating		Symbol	Value	Unit
Reverse Voltage	M1MA151K	V_R	40	Vdc
	M1MA152K		80	
Peak Reverse Voltage	M1MA151K	V_{RM}	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

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

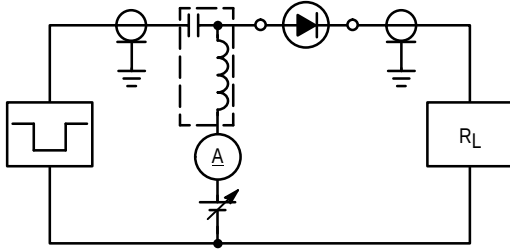
Characteristic		Symbol	Condition	Min	Max	Unit
Reverse Voltage Leakage Current	M1MA151K	I_R	$V_R = 35\text{ V}$	—	0.1	μAdc
	M1MA152K		$V_R = 75\text{ V}$	—	0.1	
Forward Voltage		V_F	$I_F = 100\text{ mA}$	—	1.2	Vdc
Reverse Breakdown Voltage	M1MA151K	V_R	$I_R = 100\text{ }\mu\text{A}$	40	—	Vdc
	M1MA152K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

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

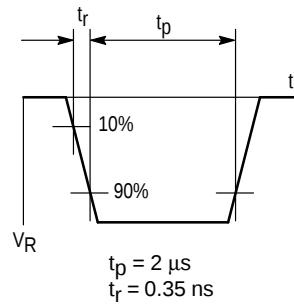
2. t_{rr} Test Circuit

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		

RECOVERY TIME EQUIVALENT TEST CIRCUIT



INPUT PULSE



OUTPUT PULSE

