

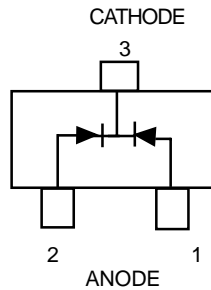
Common Anode Silicon Dual Switching diodes

These Common Cathode Silicon Epitaxial Planar Dual Diodes are designed for use in ultra high speed switching applications. These devices are housed in the SC-59 package which is designed for low power surface mount applications.

- Fast t_{rr} , < 3.0 ns
- Low C_D , < 2.0 pF
- Available in 8 mm Tape and Reel

Use M1MA151/2WKT1 to order the 7 inch/3000 unit reel.

Use M1MA151/2WKT3 to order the 13 inch/10,000 unit reel.



M1MA151WKT1
M1MA152WKT1

SC-59 PACKAGE
COMMON CATHODE
DUAL SWITCHING DIODES
40/80 V-100mA
SURFACE MOUNT

3
2
1
CASE 318D-03, STYLE3
SC-59

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

Rating	Symbol	Value	Unit
Reverse Voltage	M1MA151WAT1	V_R	40
	M1MA152WAT1		80
Peak Reverse Voltage	M1MA151WAT1	V_{RM}	40
	M1MA152WAT1		80
Forward Current	Single	I_F	100
	Dual		150
Peak Forward Current	Single	I_{FM}	225
	Dual		340
Peak Forward Surge Current	Single	$I_{FSM}^{(1)}$	500
	Dual		750

THERMAL CHARACTERISTICS

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

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

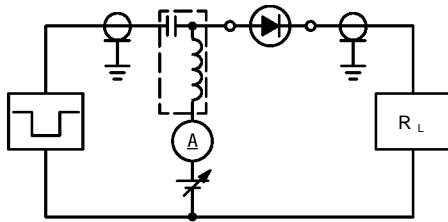
Characteristic	Symbol	Condition	Min	Max	Unit
Reverse Voltage Leakage Current	M1MA151WAT1	I_R	$V_R = 35\text{ V}$	—	0.1
	M1MA152WAT1		$V_R = 75\text{ V}$	—	0.1
Forward Voltage	V_F	$I_F = 100\text{ mA}$	—	1.2	Vdc
Reverse Breakdown Voltage	M1MA151WAT1	V_R	$I_R = 100\ \mu\text{A}$	40	—
	M1MA152WAT1			80	—
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. $t = 1\text{ SEC}$

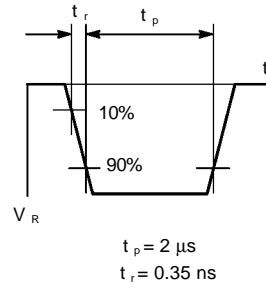
2. t_{rr} Test Circuit

M1MA151WKT1 M1MA152WKT1

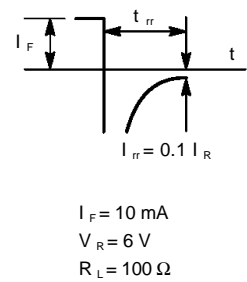
RECOVERY TIME EQUIVALENT TEST CIRCUIT



INPUT PULSE

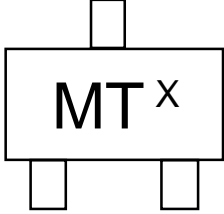


OUTPUT PULSE



DEVICE MARKING—EXAMPLE

Marking Symbol		
Type No.	151WK	152WK
Symbol	MT	MU



The "X" represents a smaller alpha digit Date Code. The Date Code indicates the actual month in which the part was manufactured.