

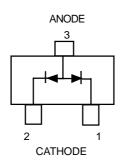


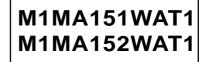
Common Anode Silicon Dual Switching diodes

These Common Anode 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.

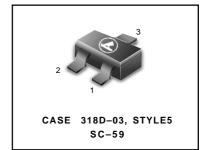
- Fast t $_{\rm rr}$, < 10 ns
- Low C $_{\rm D}$, < 15 pF
- Available in 8 mm Tape and Reel
 Use M1MA151/2WAT1 to order the 7 inch/3000 unit reel.

Use M1MA151/2WAT3 to order the 13 inch/10,000 unit reel.





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



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

Rating		Symbol	Value	Unit
Reverse Voltage	M1MA151WAT1	V _R	40	Vdc
	M1MA152WAT1		80	
Peak Reverse Voltage	M1MA151WAT1	V RM	40	Vdc
	M1MA152WAT1		80	
Forward Current	Single	I _F	100	mAdc
	Dual		150	
Peak Forward Current	Single	I _{FM}	225	mAdc
	Dual		340	
Peak Forward Surge Current	Single	I _{FSM} ⁽¹⁾	500	mAdc
	Dual		750	

THERMAL CHARACTERISTICS

Rating	Symbo	IMax	Unit	
Power Dissipation	PD	200	mW	
Junction Temperature	ΤJ	150	°C	
Storage Temperature	T _{stg}	-55 to +150	°C	

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

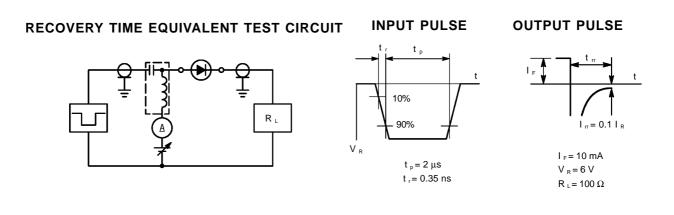
Characteristic	Symbol	Condition	Min	Max	Unit
Reverse Voltage Leakage Current M1MA151WA	T1 I _R	V _R = 35 V	_	0.1	μAdc
M1MA152WA	T1	V _R = 75 V	_	0.1	
Forward Voltage	V _F	I _F = 100 mA	_	1.2	Vdc
Reverse Breakdown Voltage M1MA151WA	T1 V _R	I _R = 100 μA	40	—	Vdc
M1MA152WA	T1		80	_	
Diode Capacitance	CD	$V_{R} = 0, f = 1.0 \text{ MHz}$	_	15	pF
Reverse Recovery Time	t rr ⁽²⁾	$I_F = 10 \text{ mA}, V_R = 6.0 \text{ V},$		10	ns
		$R_{L} = 100\Omega, I_{rr} = 0.1 I_{R}$			

1. t = 1 SEC

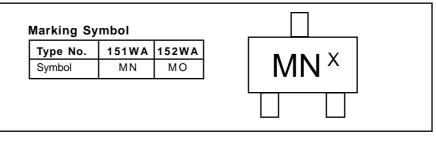
2. t $_{\rm rr}$ Test Circuit



M1MA151WAT1 M1MA152WAT1



DEVICE MARKING—EXAMPLE



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