# MA151WK, MA152WK

## Silicon Epitaxial Planar Type

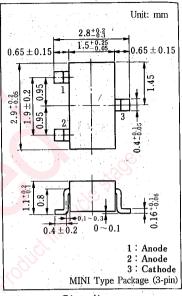
#### Switching

- Features
- Fast tr
- Small Ct
- Absolute Maximum Ratings (Ta=25°C)

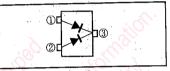
Item		Symbol	Value	Unit		
Reverse Voltage (DC)	MA151WK	V	40	V		
	MA152WK	VR	80			
Peak Reverse Voltage	MA151WK	V	40	v		
	MA152WK	V <sub>RM</sub>	80			
Forward Current (DC)	Single	T	100	mA		
	Double	l <sub>F</sub>	150			
Peak Forward Current	Single	I <sub>FM</sub>	225	mA		
	Double		340			
Non-Repetitive Peak Forward Surge Current	Single	T *	500	mA		
	Double	IFSM*	750			
Junction Temperature		Tj	150	° ((V)		
Storage Temperature		Tsig	-55~+150	3		
	1	<u> </u>				

#### Package Dimensions

MA151WK, MA152WK



#### Inner Circuit

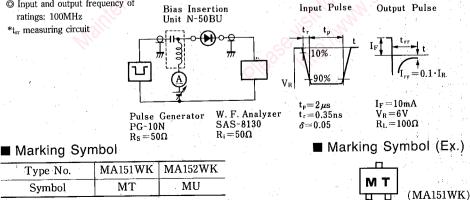


#### \*t=1s ■ Electrical Characteristics (Ta=25°C)

Item		Symbol	Condition	min.	typ.	max.	Unit
Reverse Current (DC)	MA151WK MA152WK	IR	$V_{R} = 35 V$ $V_{R} = 75 V$	NR S J		0.1	μA
Forward Voltage (DC)		V <sub>F</sub>	$I_{\rm F} = 100 \mathrm{mA}$	20		1.2	
Reverse Voltage (DC)	MA151WK MA152WK	VR	$I_R = 100 \ \mu A$	40 80	<u>v</u>		V
Terminal Capacitance		Ct	$V_{R}=0, f=1 MHz$	0		2	pF
Reverse Recovery Time		t <sub>rr</sub> *	$I_{\rm F} = 10 \text{ mA}, V_{\rm R} = 6 \text{ V}, R_{\rm L} = 100 \Omega$ $I_{\rm rr} = 0.1 \cdot I_{\rm R}$	2		3	ns

O Input and output frequency of ratings: 100MHz

\*t<sub>π</sub> measuring circuit

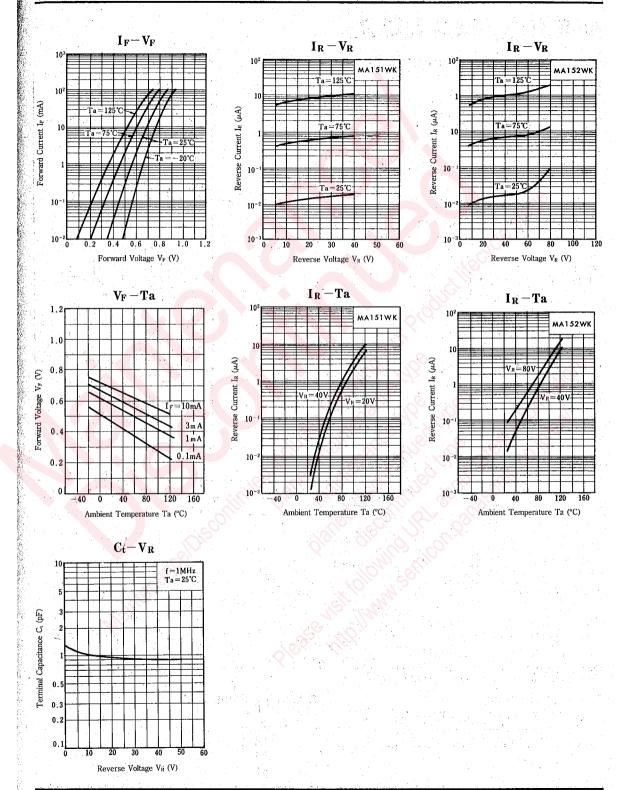


Type No.

Symbol

### Switching Diodes

#### MA151WK, MA152WK



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