

MA1U152WK

Silicon epitaxial planer type

For switching circuits

■ Features

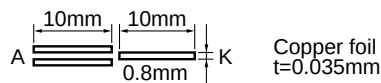
- Package thickness as small as 0.7mm, most favorite for thinning of equipment
- Flat lead type, with improved mounting efficiency and solderability in the high-speed mounting machine
- Short reverse recovery period t_{rr}
- Small capacity between pins, C_t
- Cathode common connection type

■ Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter		Symbol	Rating	Unit
Reverse voltage (DC)		V_R	80	V
Peak reverse voltage		V_{RM}	80	V
Forward current (DC)	Single	I_F	100	mA
	Double		150	
Peak forward current	Single	I_{FM}	225	mA
	Double		340	
Non-repetitive peak forward surge current	Single	I_{FSM}^*	500	mA
	Double		750	
Junction temperature		T_j	150	$^\circ\text{C}$
Storage temperature		T_{stg}	- 55 to +150	$^\circ\text{C}$

* 1 With printed circuit board

* 2 $t = 1\text{s}$

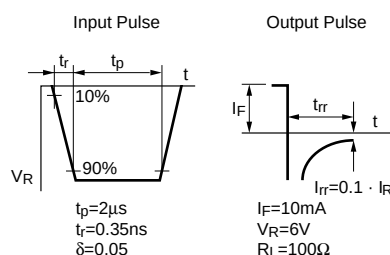
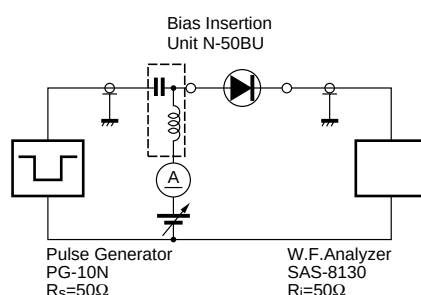


■ Electrical Characteristics ($T_a = 25^\circ\text{C}$)

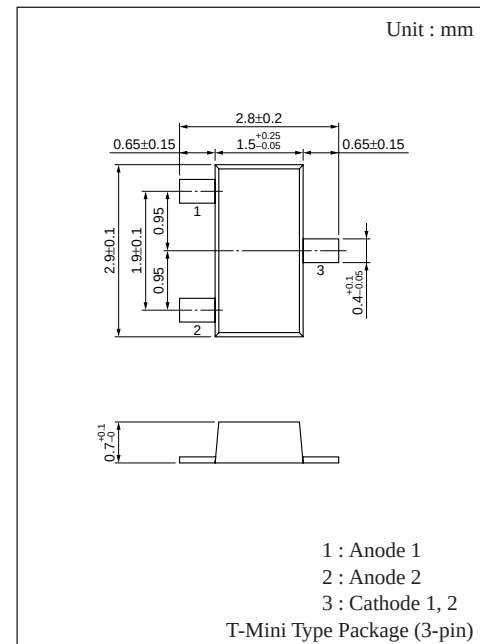
Parameter	Symbol	Condition	min	typ	max	Unit
Reverse current (DC)	I_R	$V_R = 75\text{V}$			0.1	μA
Forward voltage (DC)	V_F	$I_F = 100\text{mA}$			1.2	V
Reverse voltage (DC)	V_R	$I_R = 100\mu\text{A}$	80			V
Terminal capacitance	C_t	$V_R = 0\text{V}$, $f = 1\text{MHz}$			2	pF
Reverse recovery time	t_{rr}^*	$I_F = 10\text{mA}$, $V_R = 6\text{V}$ $I_{rr} = 0.1 \cdot I_R$, $R_L = 100\Omega$			3	ns

Note 1 : Rated input/output frequency : 100MHz

2 : * t_{rr} measuring circuit

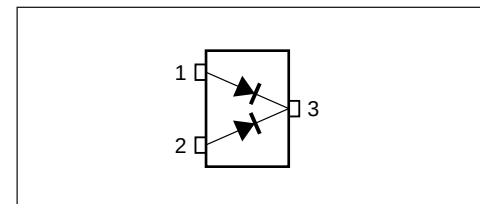


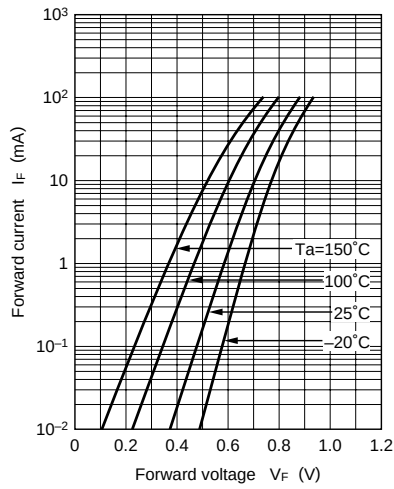
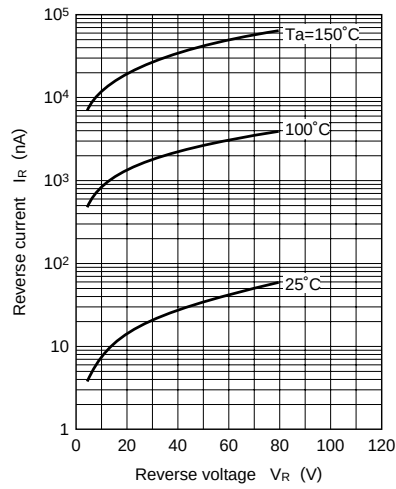
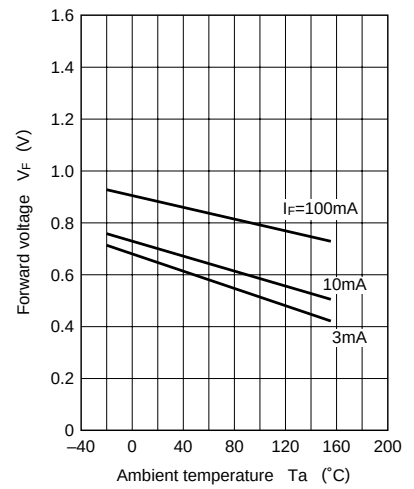
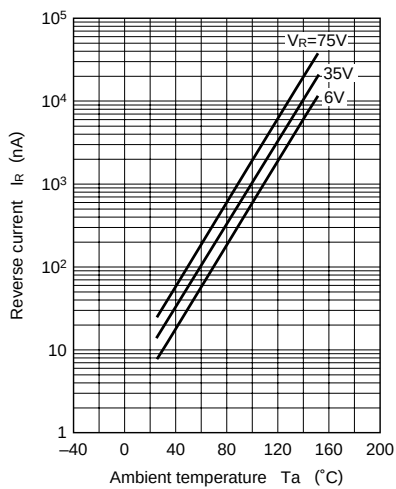
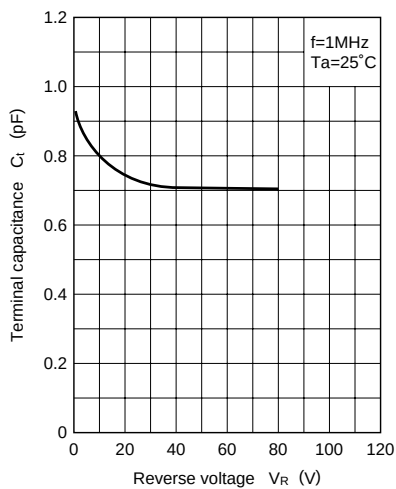
■ Marking



Marking Symbol : MU

■ Internal Connection



$I_F - V_F$  $I_R - V_R$  $V_F - T_a$  $I_R - T_a$  $C_t - V_R$  $I_F(\text{surge}) - t_w$ 