

MA170, MA171

Silicon epitaxial planer type

For high speed switching circuits

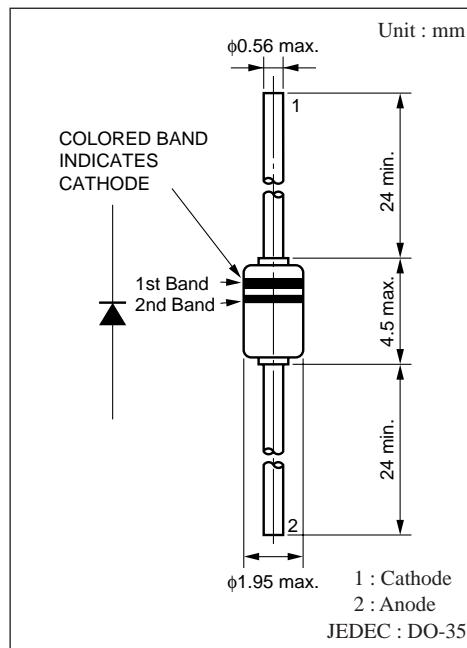
■ Features

- Large forward current $I_F(AV)$
- High switching speed
- Small capacity between pins, C_t

■ Absolute Maximum Ratings (Ta= 25°C)

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	40	V
		80	
Repetitive peak reverse voltage	V_{RRM}	40	V
		80	
Average forward current	$I_F(AV)$	200	mA
Repetitive peak forward current	I_{FRM}	600	mA
Non-repetitive peak forward surge current	I_{FSM}^*	1	A
Junction temperature	T_j	200	°C
Storage temperature	T_{stg}	-55 to + 200	°C

* t=1s



■ Electrical Characteristics (Ta= 25°C)

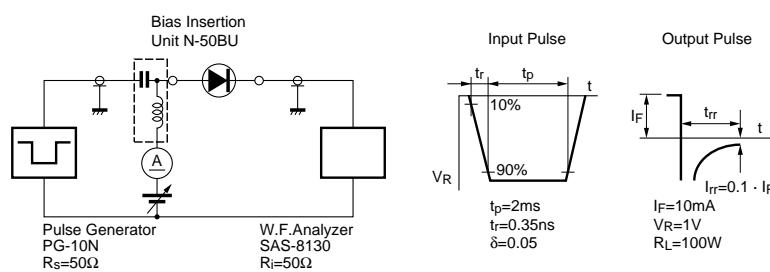
Parameter	Symbol	Condition	min	typ	max	Unit
Reverse current (DC)	I_{R1}	$V_R=15V$			50	nA
		$V_R=35V$			500	nA
	I_{R2}	$V_R=75V$			500	
		$V_R=35V, Ta=150^\circ C$			100	μA
	I_R	$V_R=75V, Ta=150^\circ C$			100	
Forward voltage (DC)	V_F	$I_F=200mA$			1.1	V
Terminal capacitance	C_t	$V_R=0V, f=1MHz$			4	pF
Reverse recovery time	t_{rr}^*	$I_F=10mA, V_R=1V$ $I_{rr}=0.1 \cdot I_R, R_L=100\Omega$			20	ns

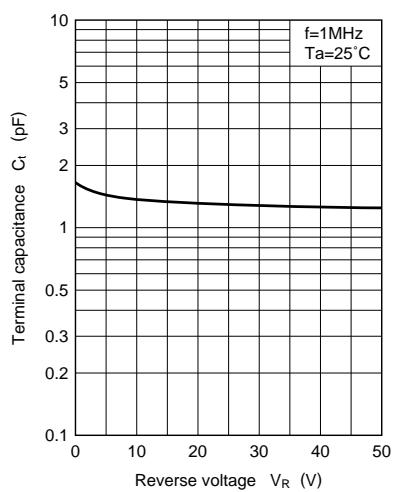
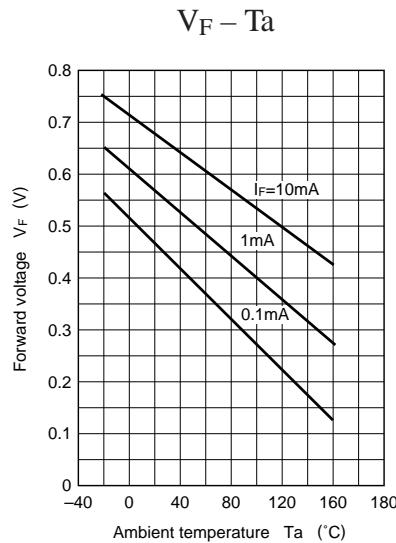
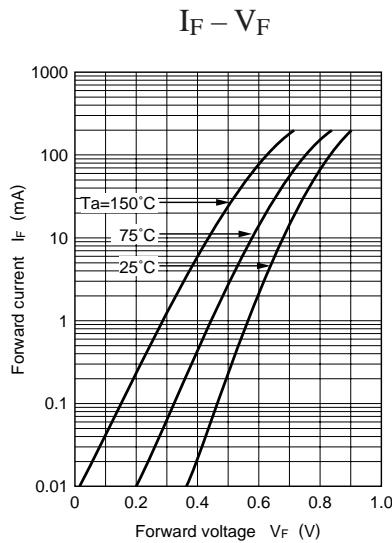
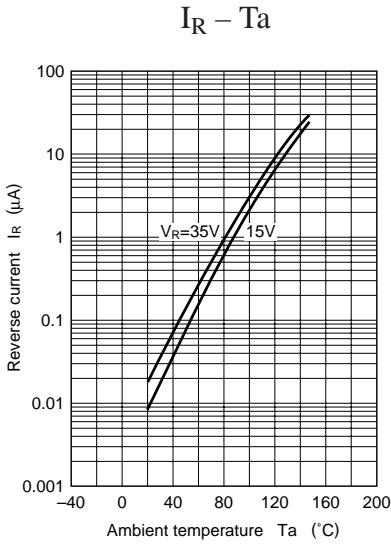
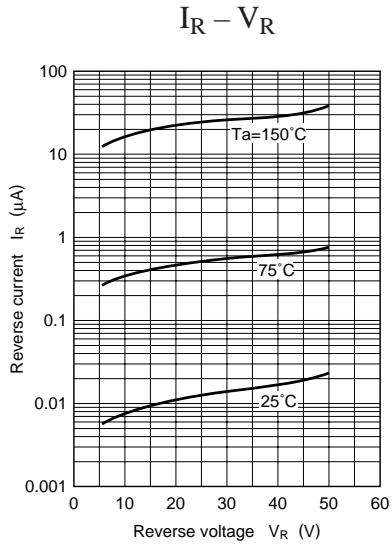
❖ Rated input/output frequency : 100MHz

■ Cathode Indication

* t_{rr} measuring circuit

Type No.	MA170	MA171
Color	1st Band	Violet
	2nd Band	White



Common characteristics chart**Characteristics chart of MA170****Characteristics chart of MA171**