

MA188

Silicon epitaxial planer type

For high-speed high voltage resistance switch and small power current rectification

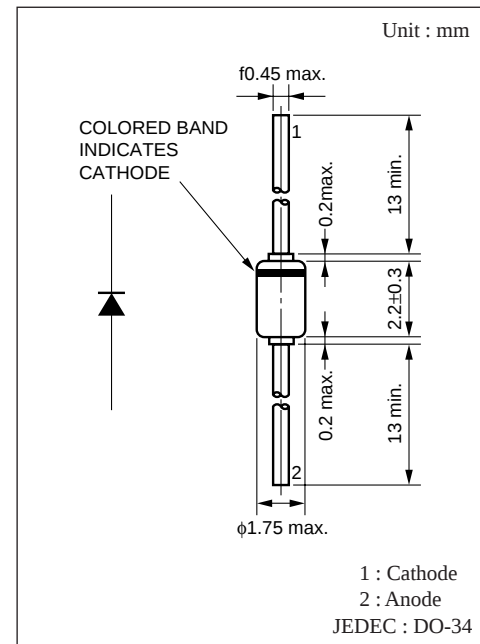
■ Features

- Small glass type (DO-34), enabling 5mm pitch insertion
- High voltage resistance ($V_R = 200V$), enabling rectification

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

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	200	V
Peak reverse voltage	V_{RM}	250	V
Average power dissipation	$P_F (AV)$	400	mW
Output current	I_O	200	mA
Repetitive peak forward current	I_{FRM}	625	mA
Non-repetitive peak forward surge current	I_{FSM}^*	1	A
Junction temperature	T_j	175	$^\circ C$
Storage temperature	T_{stg}	- 65 to +175	$^\circ C$

* $t = 1s$

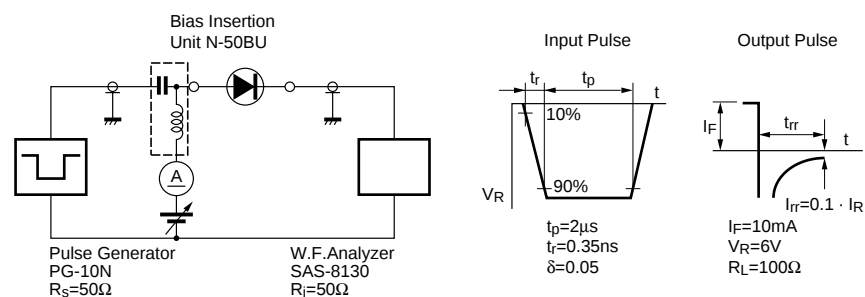


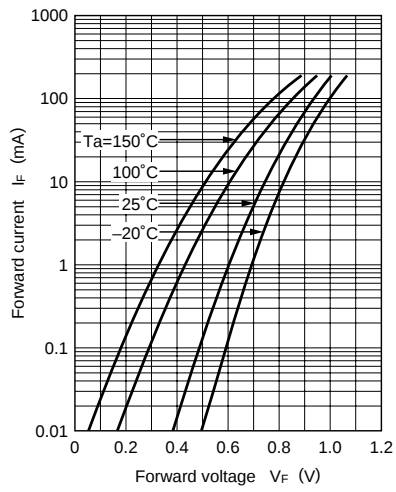
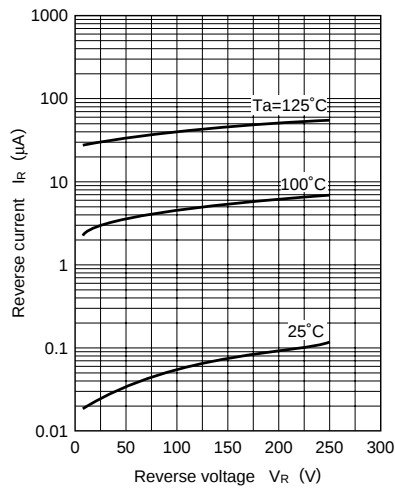
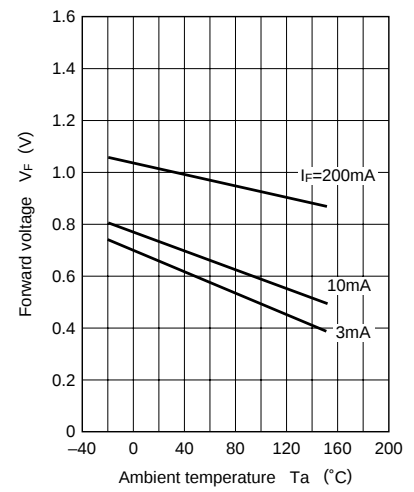
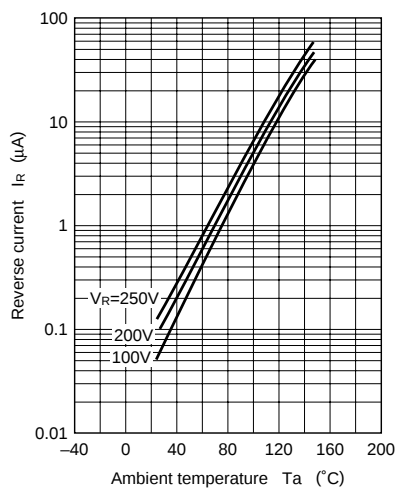
■ Electrical Characteristics ($T_a = 25^\circ C$)

Parameter	Symbol	Condition	min	typ	max	Unit
Reverse current (DC)	I_R	$V_R = 200V$			200	nA
Forward voltage (DC)	V_F	$I_F = 200mA$			1.2	V
Reverse voltage (DC)	V_R	$I_R = 100\mu A$	250			V
Terminal capacitance	C_t	$V_R = 0V, f = 1MHz$		1.0		pF
Reverse recovery time	t_{rr}^*	$I_F = 10mA, V_R = 1V$ $I_{rr} = 0.1 \cdot I_R, R_L = 100\Omega$			60	ns

Note 1 : Rated input/output frequency : 20MHz

2 : * t_{rr} measuring circuit



$I_F - V_F$  $I_R - V_R$  $V_F - T_a$  $I_R - T_a$  $C_t - V_R$ 