

MA185

Silicon epitaxial planer type

For high voltage resistance switching and small-power current rectification

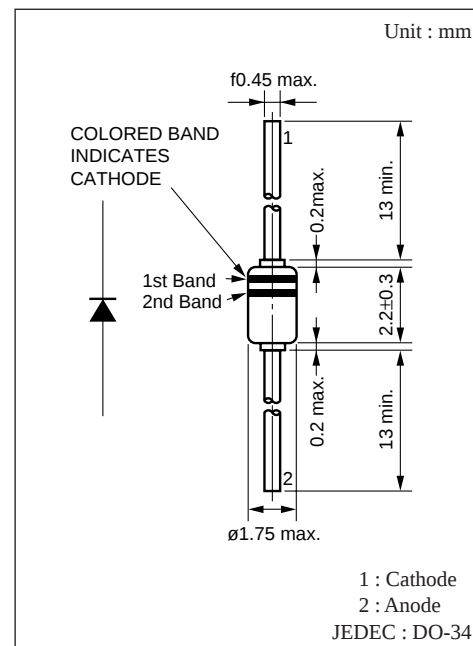
■ Features

- High reverse voltage V_R ($V_R = 200V$)
- Large output current I_O
- Small glass type (DO-34), enabling 5mm pitch insertion

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

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

* $t = 1s$



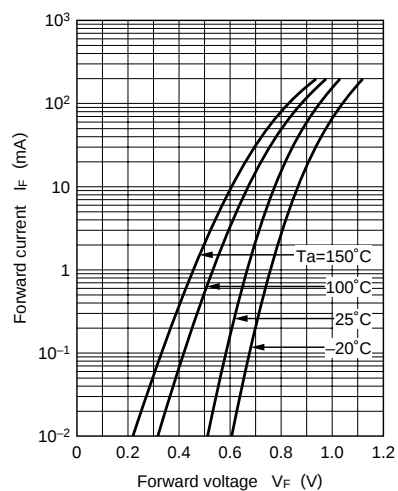
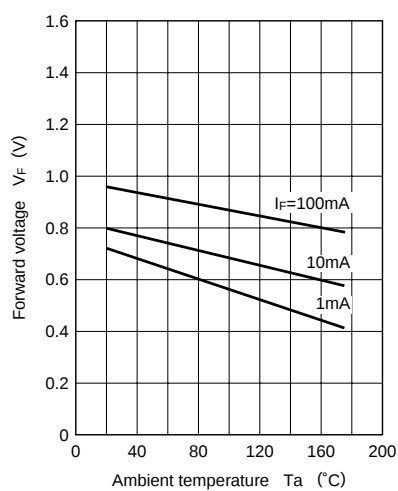
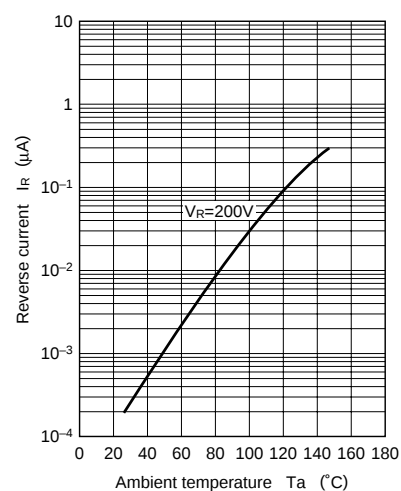
■ Electrical Characteristics ($T_a = 25^\circ C$)

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	$V_R = 0V, f = 1MHz$		4.5		pF

❖ Rated input/output frequency : 3MHz

■ Cathode Indication

Type No.	MA185	
Color	1st Band	White
	2nd Band	Green

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