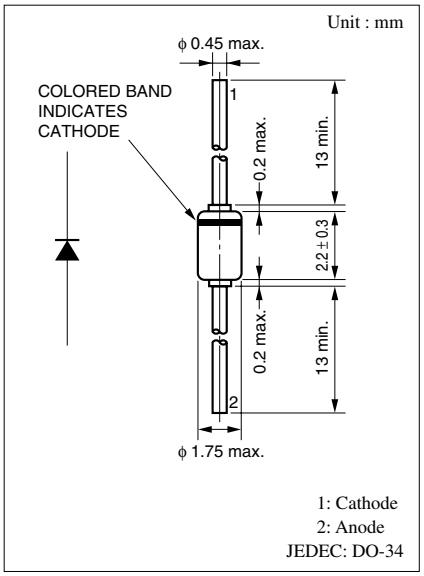
MA2C188 (MA188)

Silicon epitaxial planar type

For high speed and high voltage switching, small-power rectification



■ Features

- Small glass type (DO-34) package, allowing to insert into a 5 mm pitch hole
- High voltage (V_R: 200 V) rectification is possible

■ Absolute Maximum Ratings $T_a = 25°C$

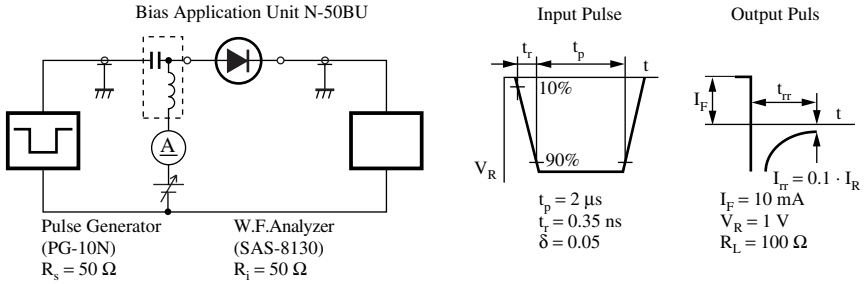
Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	200	V
Peak reverse voltage	V_{RM}	250	V
Average power dissipation	$P_{F(AV)}$	400	mW
Output current	I_O	200	mA
Repetitive peak forward current	I_{FRM}	625	mA
Non-repetitive peak forward surge current*	I_{FSM}	1	A
Junction temperature	T_j	175	°C
Storage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

Note) * : t = 1 s

■ Electrical Characteristics $T_a = 25°C$

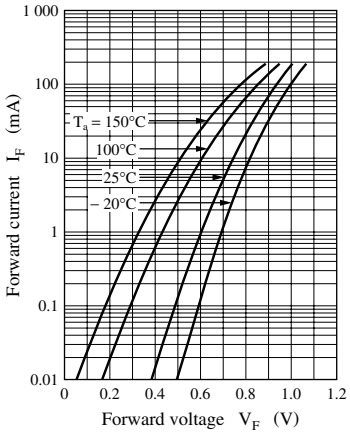
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	I_R	V_R = 200 V			200	nA
Forward voltage (DC)	V_F	I_F = 200 mA			1.2	V
Reverse voltage (DC)	V_R	I_R = 100 µA	250			V
Terminal capacitance	C_t	V_R = 0 V, f = 1 MHz		1.0		pF
Reverse recovery time*	t_{rr}	I_F = 10 mA, V_R = 1 V I_{rr} = 0.1 · I_R, R_L = 100 Ω			60	ns

Note) 1. Rated input/output frequency: 20 MHz
2. * : t_{rr} measuring circuit

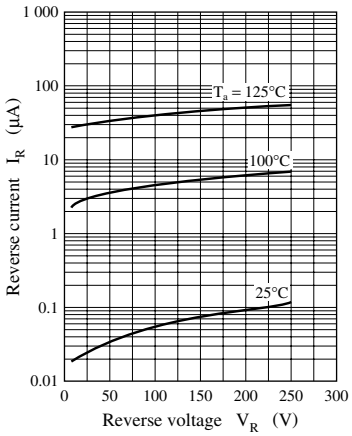


Note) The part number in the parenthesis shows conventional part number.

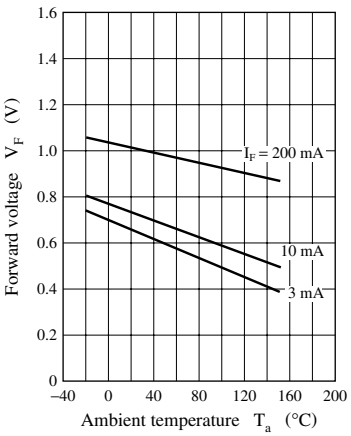
I_F — V_F



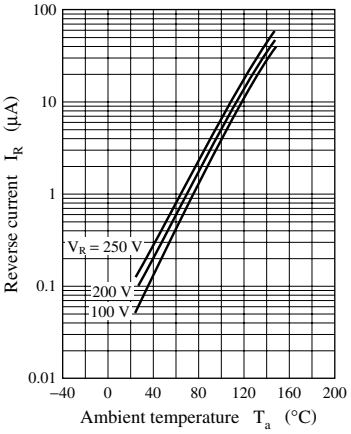
I_R — V_R



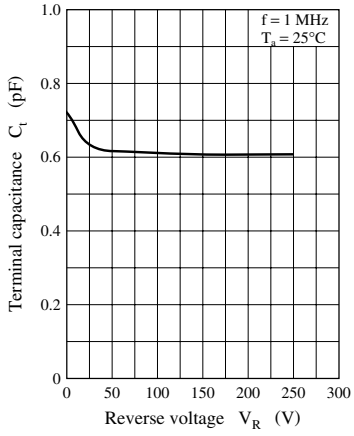
V_F — T_a



I_R — T_a



C_t — V_R



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