

MA2QD01

Silicon epitaxial planer type

For high-frequency rectification

■ Features

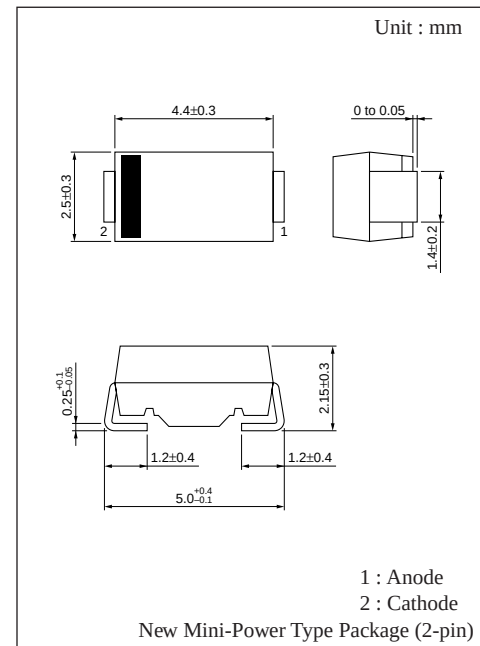
- New Mini type package (2-pin)
- $I_{F(AV)} = 1.5A$ rectification possible
- $V_R = 60V$ guaranteed

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

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	60	V
Repetitive peak reverse voltage	V_{RRM}	60	V
Average forward current	$I_{F(AV)}^{*1}$	1.5	A
Non-repetitive peak forward surge current	I_{FSM}^{*2}	60	A
Junction temperature	T_j	- 40 to + 125	$^\circ C$
Storage temperature	T_{stg}	- 40 to + 125	$^\circ C$

*1 Achieved with a printed-circuit board

*2 50Hz sine wave, one-cycle wave, high value (non-repetitive)

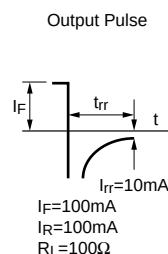
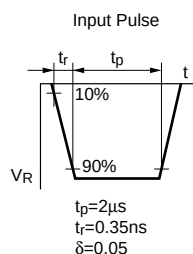
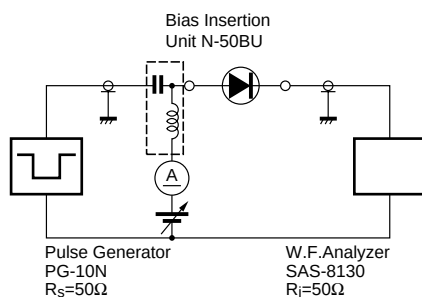


Marking Symbol : PL

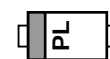
■ Electrical Characteristics ($T_c = 25^\circ C$)

Parameter	Symbol	Condition	min	typ	max	Unit
Reverse current (DC)	I_R	$V_R = 60V$			1	mA
Forward voltage (DC)	V_F	$I_F = 1.5mA$			0.55	V
Terminal capacitance	C_t	$V_R = 10V, f = 1MHz$		110		pF
Reverse recovery time	t_{rr}^*	$I_F = I_R = 100mA$ $I_{rr} = 10mA, R_L = 100\Omega$			100	ns

Note 1. Rated input/output frequency : 20MHz

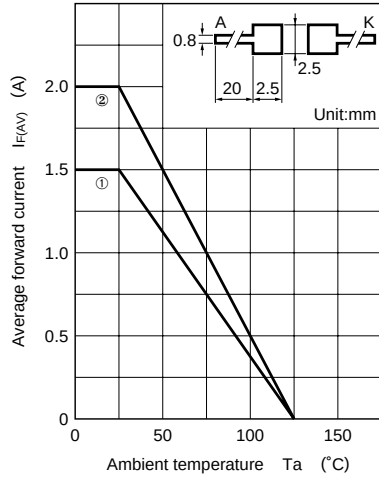
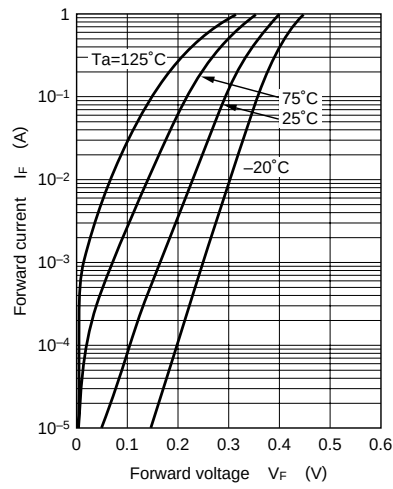
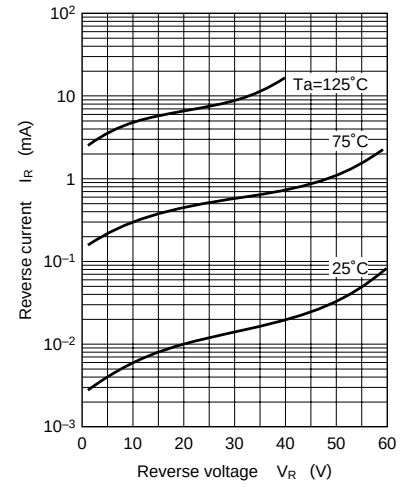
2. * t_{rr} measuring circuit

■ Marking



$I_F(AV) - T_a$

- ① Printed-circuit board : Glass epoxy board
 ② Printed-circuit board : Alumina board
 Copper foil for both A and K sides
 $2.5\text{mm} \times 2.5\text{mm} + 0.8\text{mm} \times 20\text{mm}$

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