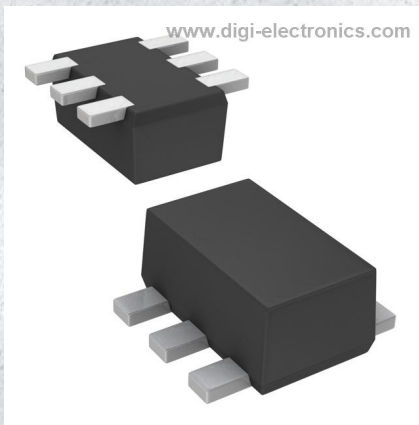


MA6Z12100L Datasheet




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DiGi Electronics Part Number	MA6Z12100L-DG
Manufacturer	Panasonic Electronic Components
Manufacturer Product Number	MA6Z12100L
Description	DIODE ARRAY GP 80V 100MA SMINI6
Detailed Description	Diode Array 3 Independent 80 V 100mA (DC) Surface Mount 6-SMD, Flat Leads

This model MA6Z12100L is available at DiGi Electronics.

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Purchase and inquiry

Manufacturer Product Number:

MA6Z12100L

Series:

-

Diode Configuration:

3 Independent

Voltage - DC Reverse (Vr) (Max):

80 V

Voltage - Forward (Vf) (Max) @ If:

1.2 V @ 100 mA

Reverse Recovery Time (trr):

3 ns

Operating Temperature - Junction:

150°C (Max)

Package / Case:

6-SMD, Flat Leads

Base Product Number:

MA6Z121

Manufacturer:

Panasonic Electronic Components

Product Status:

Obsolete

Technology:

Standard

Current - Average Rectified (Io) (per Diode):

100mA (DC)

Speed:

Small Signal =< 200mA (Io), Any Speed

Current - Reverse Leakage @ Vr:

100 nA @ 75 V

Mounting Type:

Surface Mount

Supplier Device Package:

SMini6-F1

Environmental & Export classification

Moisture Sensitivity Level (MSL):

1 (Unlimited)

HTSUS:

8541.10.0070

ECCN:

EAR99

MA6Z121 (MA6S121)

Silicon epitaxial planar type

For switching circuit

■ Features

- Three isolated elements contained in one package, allowing high-density mounting
- Flat lead type, resulting in improved mounting efficiency and solderability with the high-speed mounting machine
- Short reverse recovery time t_{rr}
- Small terminal capacitance C_t

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	80	V
Maximum peak reverse voltage	V_{RM}	80	V
Forward current *1	I_F	100	mA
Peak forward current *1	I_{FM}	225	mA
Non-repetitive peak forward surge current *1,2	I_{FSM}	500	mA
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

Note) *1: Value for single diode

*2: $t = 1\text{ s}$

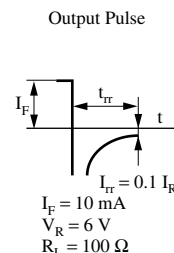
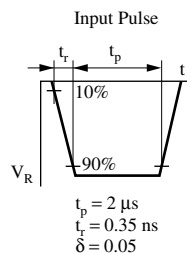
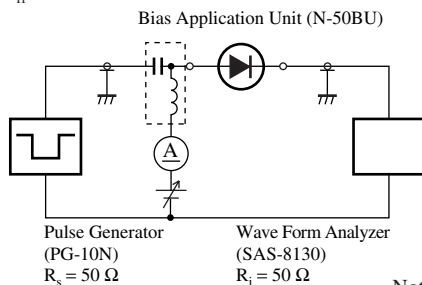
■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 100\text{ mA}$			1.2	V
Reverse voltage	V_R	$I_R = 100\ \mu\text{A}$	80			V
Reverse current	I_R	$V_R = 75\text{ V}$			100	nA
Terminal capacitance	C_t	$V_R = 0\text{ V}, f = 1\text{ MHz}$			2	pF
Reverse recovery time *	t_{rr}	$I_F = 10\text{ mA}, V_R = 6\text{ V}$ $I_{rr} = 0.1 I_R, R_L = 100\ \Omega$			3	ns

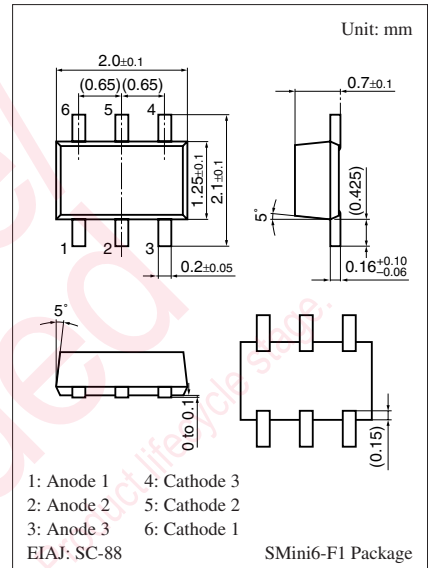
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

2. Absolute frequency of input and output is 100 MHz.

3. *: t_{rr} measurement circuit

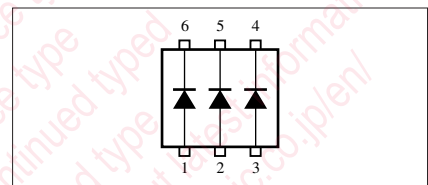


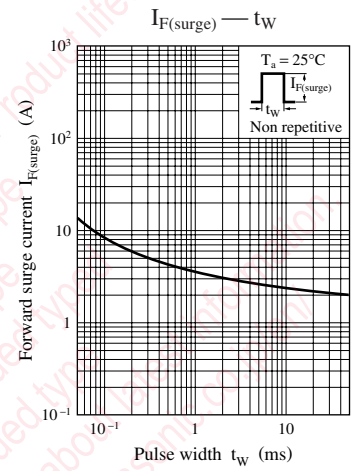
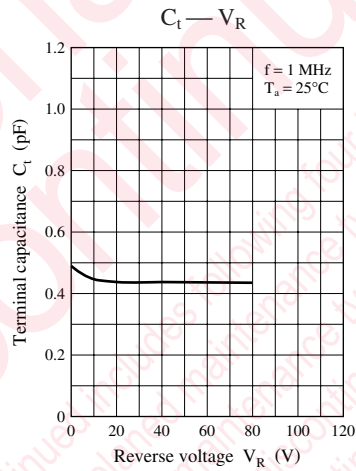
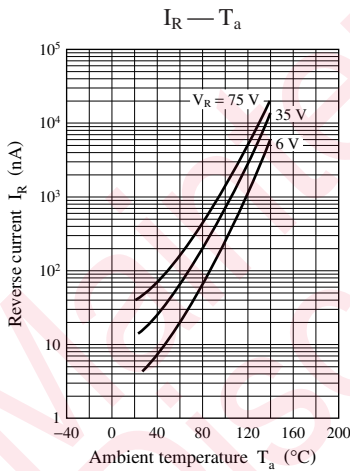
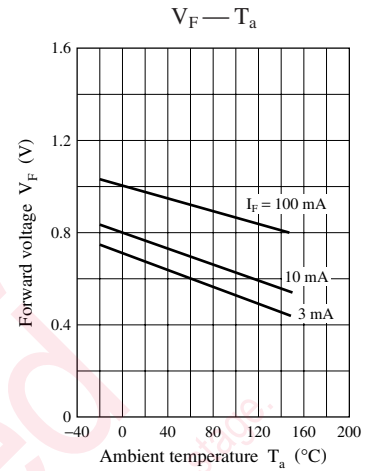
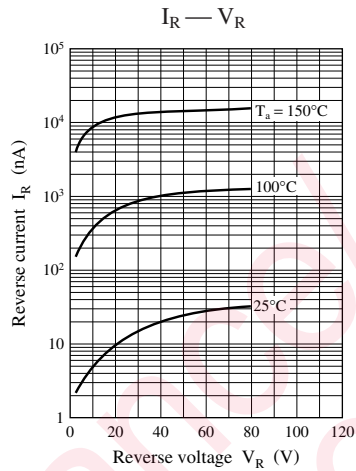
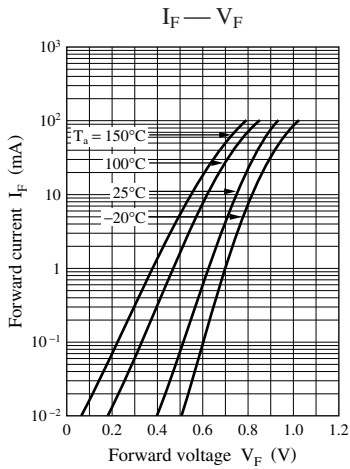
Note) The part number in the parenthesis shows conventional part number.



Marking Symbol: M2D

Internal Connection





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