Panasonic

Unit: mm

MA3J142D (MA142WA), MA3J142E (MA142WK)

Silicon epitaxial planar type

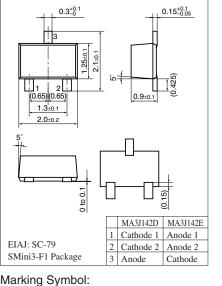
For switching circuits

Features

• Two isolated elements contained in one package, allowing highdensity mounting

Parameter		Symbol	Rating	Unit
Reverse voltage		V _R	80	V
Maximum peak reverse voltage		V _{RM}	80	V
Forward current	Single	I _F	100	mA
	Double		150	
Peak forward	Single	I _{FM}	225	mA
current	Double		340	
Non-repetitive peak	Single	I _{FSM}	500	mA
forward surge current *	Double		750	
Junction temperature		Tj	150	°C
Storage temperature		T _{stg}	-55 to +150	°C

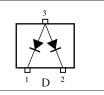
Absolute Maximum Ratings $T_a = 25^{\circ}C$



MA3J142D: MO

• MA3J142E: MU

Internal Connection





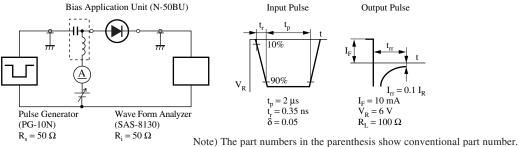
Parameter Symbol Conditions Min Max Unit Typ Forward voltage V_{F} $I_{\rm F} = 100 \, {\rm mA}$ 1.2 V $I_{R} = 100 \ \mu A$ V Reverse voltage VR 80 $V_{R} = 75 V$ Reverse current I_R 100 nA Terminal capacitance MA3J142D C_t $V_R = 0 V, f = 1 MHz$ 15 pF MA3J142E 2 $I_{\rm F} = 10 \text{ mA}, V_{\rm R} = 6 \text{ V}$ Reverse recovery time MA3J142D 10 ns t_{rr} MA3J142E $I_{rr} = 0.1 I_R$, $R_L = 100 \Omega$ 3

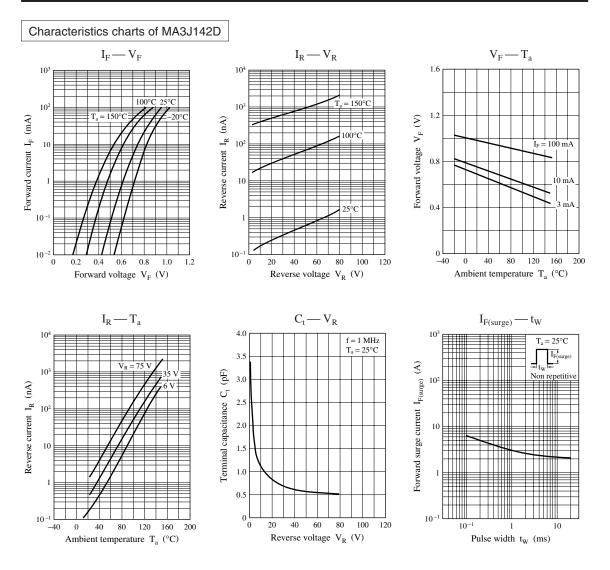
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

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

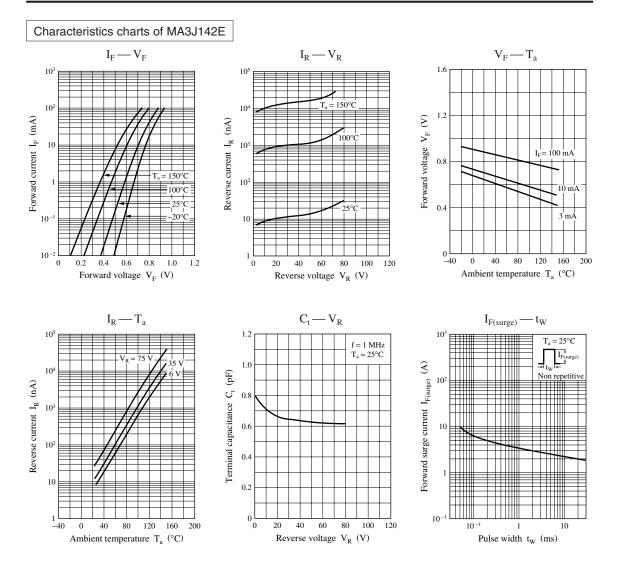
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

3. *: t_{rr} measurement circuit





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