

MA4X862 (MA862)

Silicon epitaxial planar type

For band switching

■ Features

- Two electrically independent elements incorporated
- Small diode capacitance C_D
- Low forward dynamic resistance r_f
- Optimum for a band switching of tuner

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

Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	35	V
Forward current	Single	I_F	100
	Double ^{*1}		75
Operating ambient temperature ^{*2}	T_{opr}	-25 to +85	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +100	$^\circ\text{C}$

Note) *1: Value of each diode in double diodes used.

*2: Maximum ambient temperature during operation.

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

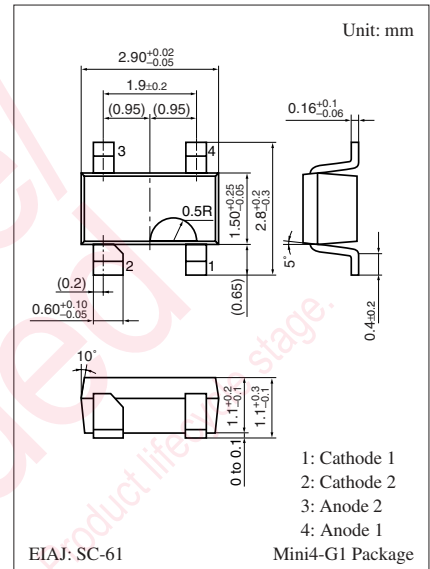
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 100 \text{ mA}$			1.0	V
Reverse current	I_R	$V_R = 33 \text{ V}$			100	nA
Diode capacitance	C_D	$V_R = 6 \text{ V}, f = 1 \text{ MHz}$			1.2	pF
Forward dynamic resistance	r_{f1} ^{*1}	$I_F = 2 \text{ mA}, f = 100 \text{ MHz}$			0.65	Ω
	r_{f2} ^{*2}				0.98	

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.

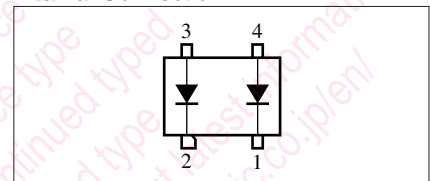
3. *1: Measuring instrument; Nihon Koshuha MODEL TDC-121A

*2: Measuring instrument; YHP MODEL 4191A RF IMPEDANCE ANALYZER

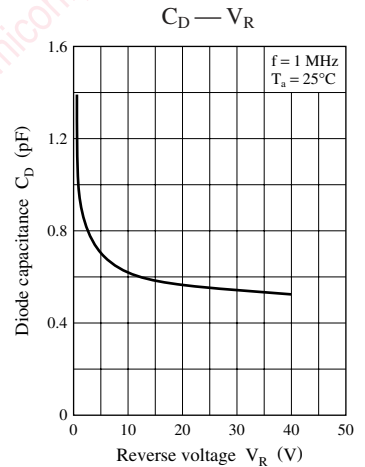
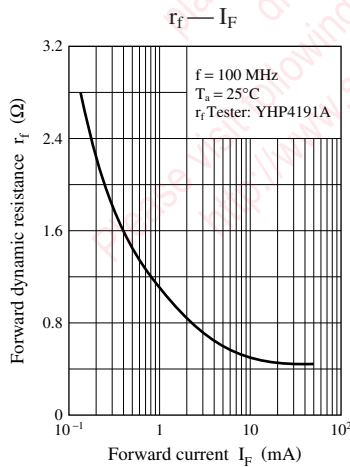
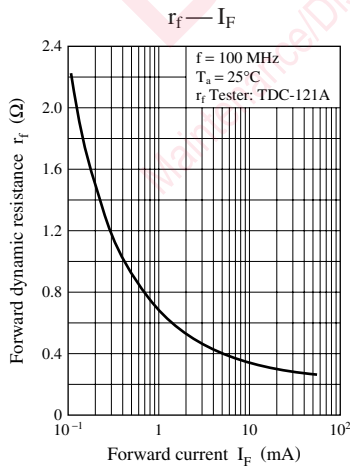
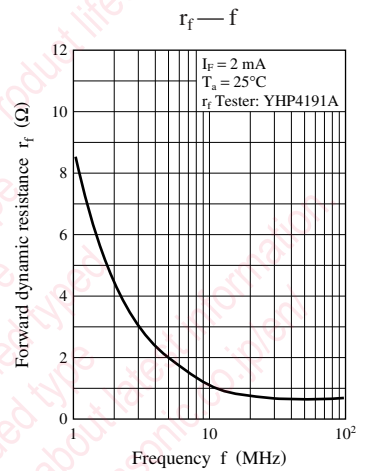
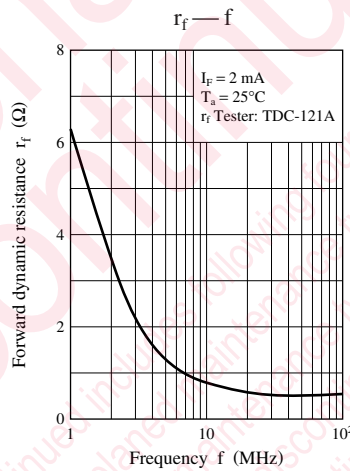
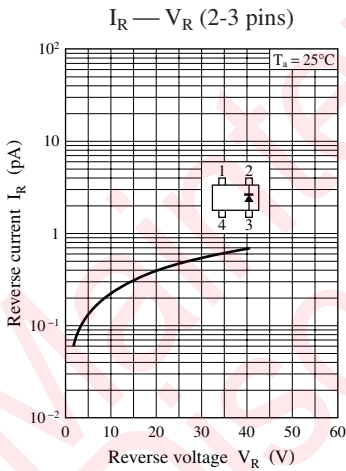
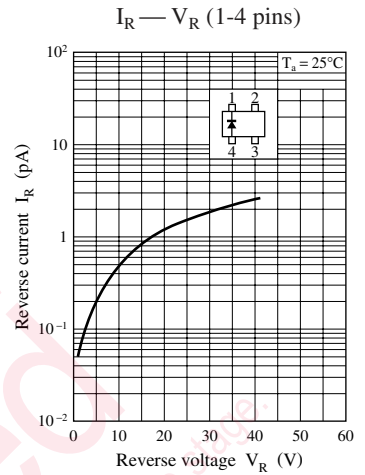
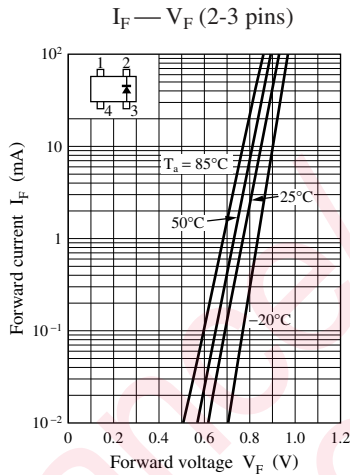
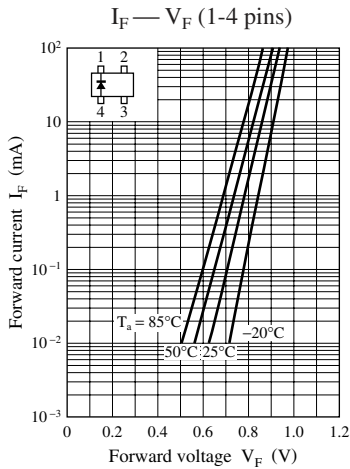


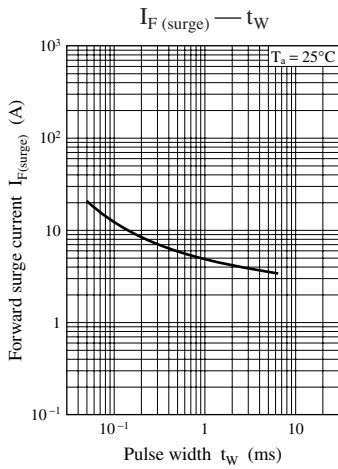
Marking Symbol: M11

Internal Connection



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





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