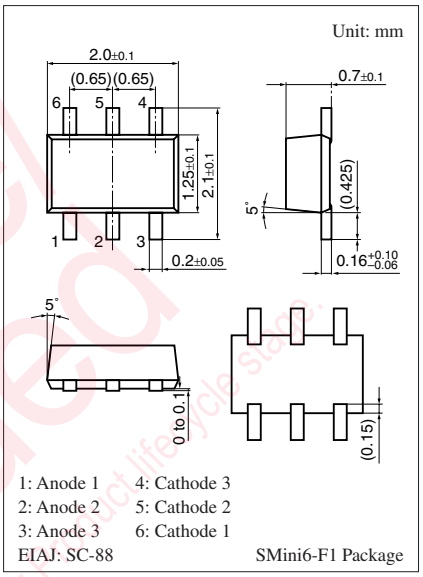
MA6Z718 (MA6S718)

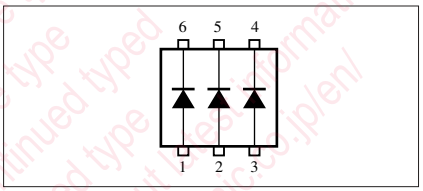
Silicon epitaxial planar type

For switching



Marking Symbol: M2N

Internal Connection



■ Features

- Three isolated elements are contained in one package, allowing high-density mounting
- Forward voltage V_F, optimum for low voltage rectification
- Optimum for high frequency rectification because of its short reverse recovery time t_{rr}

■ Absolute Maximum Ratings $T_a = 25°C$

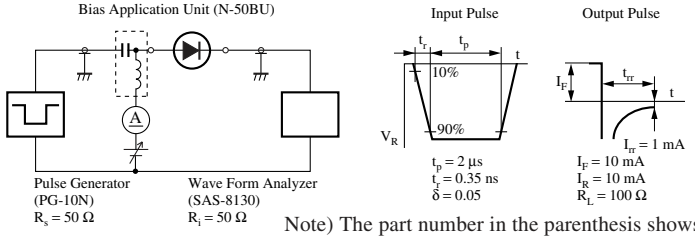
Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	30	V
Maximum peak reverse voltage	V_{RM}	30	V
Peak forward current *	I_{FM}	150	mA
Forward current *	I_F	30	mA
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	−55 to +125	°C

Note) *: Value for single diode

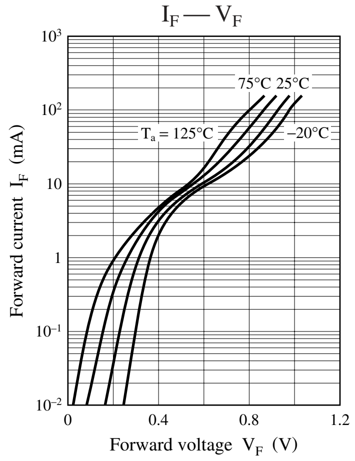
■ Electrical Characteristics $T_a = 25°C \pm 3°C$

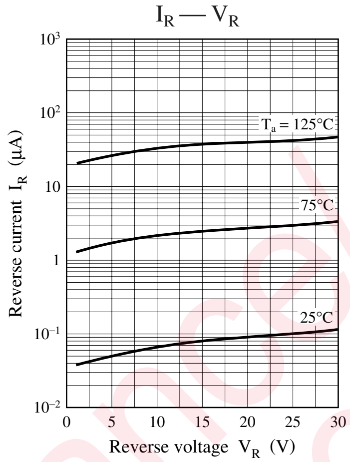
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_{F1}	$I_F = 1$ mA			0.4	V
	V_{F2}	$I_F = 30$ mA			1.0	
Reverse current	I_R	$V_R = 30$ V			1	μA
Terminal capacitance	C_t	$V_R = 1$ V, f = 1 MHz		1.5		pF
Reverse recovery time *	t_{rr}	$I_F = I_R = 10$ mA, $I_{rr} = 1$ mA, $R_L = 100\ \Omega$		1.0		ns
Detection efficiency	η	$V_{IN} = 3\ V_{(peak)}$, f = 30 MHz, $R_L = 3.9$ kΩ, $C_L = 10$ pF		65		%

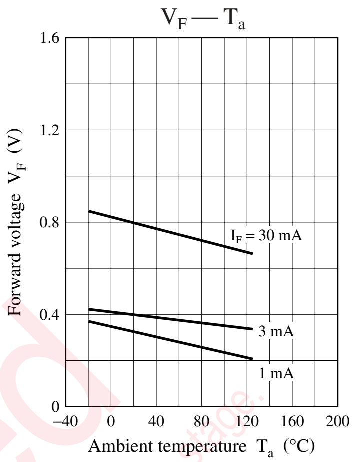
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
3. Absolute frequency of input and output is 2 GHz.
4. *: t_{rr} measurement circuit

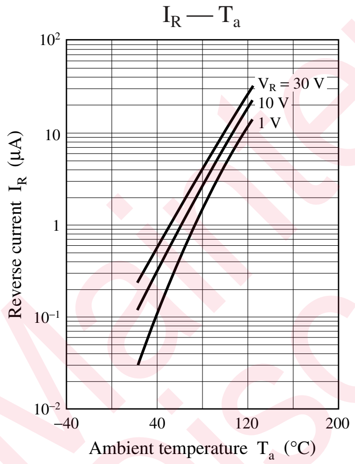


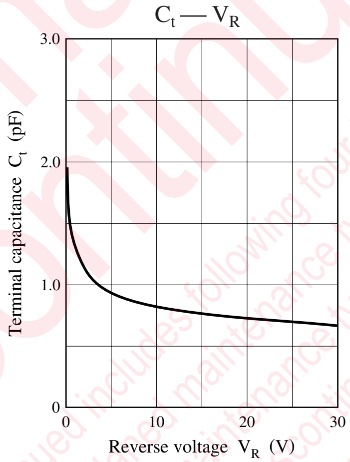
Note) The part number in the parenthesis shows conventional part number.

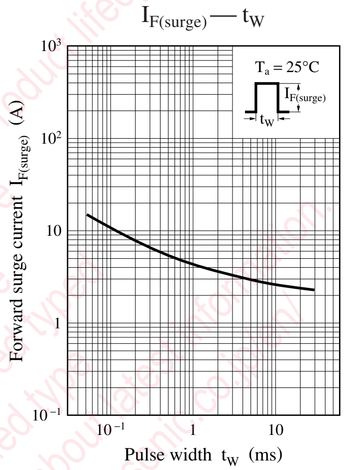












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