Unit: mm

MA3X727 (MA727)

Silicon epitaxial planar type

For super high speed switching For small current rectification

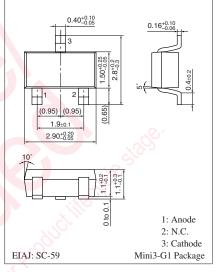
Features

- Reverse voltage $V_R = 50$ V is guaranteed
- Forward current (Average) $I_{F(AV)} = 200$ mA rectification is possible

Absolute Maximum Hatings T _a = 25 C						
Symbol	Rating	Unit				
V _R	50	V				
V _{RRM}	50	V				
I _{FM}	300	mA				
I _{F(AV)}	200	mA				
I _{FSM}	1	А				
Tj	150	°C				
T _{stg}	-55 to +150	°C				
	Symbol V _R V _{RRM} I _{FM} I _{FM} I _{FSM} T _j	$\begin{tabular}{ c c c c } \hline Symbol & Rating \\ \hline V_R & 50 \\ \hline V_{RRM} & 50 \\ \hline I_{FM} & 300 \\ \hline I_{F(AV)} & 200 \\ \hline I_{FSM} & 1 \\ \hline T_j & 150 \\ \hline \end{tabular}$				

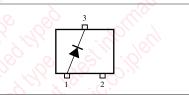
Note) *: The peak-to-peak value in one cycle of 50 Hz sine wave (non-repetitive)

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



Marking Symbol: M1Z

Internal Connection

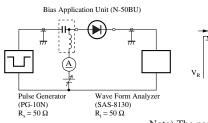


Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

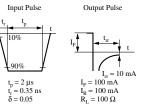
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _{F1}	$I_F = 30 \text{ mA}$	2.2		0.36	V
	V _{F2}	I _F = 200 mA			0.55	V
Reverse current	I _R	$V_R = 50 V$			200	μΑ
Terminal capacitance	Ct	$V_{R} = 0 V, f = 1 MHz$		30		pF
Reverse recovery time *	t _{rr}	$I_{\rm F} = I_{\rm R} = 100 \text{ mA}$		3.0		ns
		$I_{rr} = 10 \text{ mA}, R_L = 100 \Omega$				

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 1 GHz.

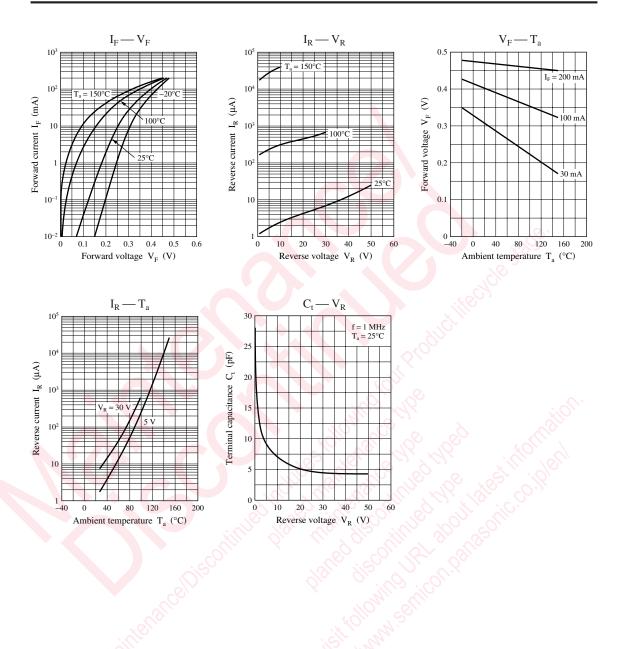






Note) The part number in the parenthesis shows conventional part number.

Panasonic



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