

DZ2U068

Silicon epitaxial planar type

For constant voltage / waveform clipper and surge absorption circuit

Low noise type

DZ27068 in USSMini2 type package

■ Features

- Excellent rising characteristics of zener current I_Z
- Low zener operating resistance R_Z
- Contributes to miniaturization of sets, reduction of component count.
- Eco-friendly Halogen-free package

■ Packaging

Embossed type (Thermo-compression sealing): 10000 pcs / reel (standard)

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

Parameter	Symbol	Rating	Unit
Repetitive peak forward current	I_{FRM}	200	mA
Total power dissipation *	P_T	120	mW
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

Note) *: $P_T = 120 \text{ mW}$ achieved with a printed circuit board.

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 10 \text{ mA}$			1.0	V
Zener voltage ^{*1,2}	V_Z	$I_Z = 5 \text{ mA}$	6.46		7.14	V
Zener operating resistance	R_Z	$I_Z = 5 \text{ mA}$			20	Ω
Reverse current	I_R	$V_R = 4.0 \text{ V}$			0.1	μA
Temperature coefficient of zener voltage ^{*3}	S_Z	$I_Z = 5 \text{ mA}$		3.2		mV/°C

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 5 MHz.

3. *1: The temperature must be controlled 25°C for V_Z measurement. V_Z value measured at other temperature must be adjusted to V_Z (25°C)

*2: V_Z guaranteed 20 ms after current flow.

*3: $T_j = 25^\circ\text{C}$ to 150°C

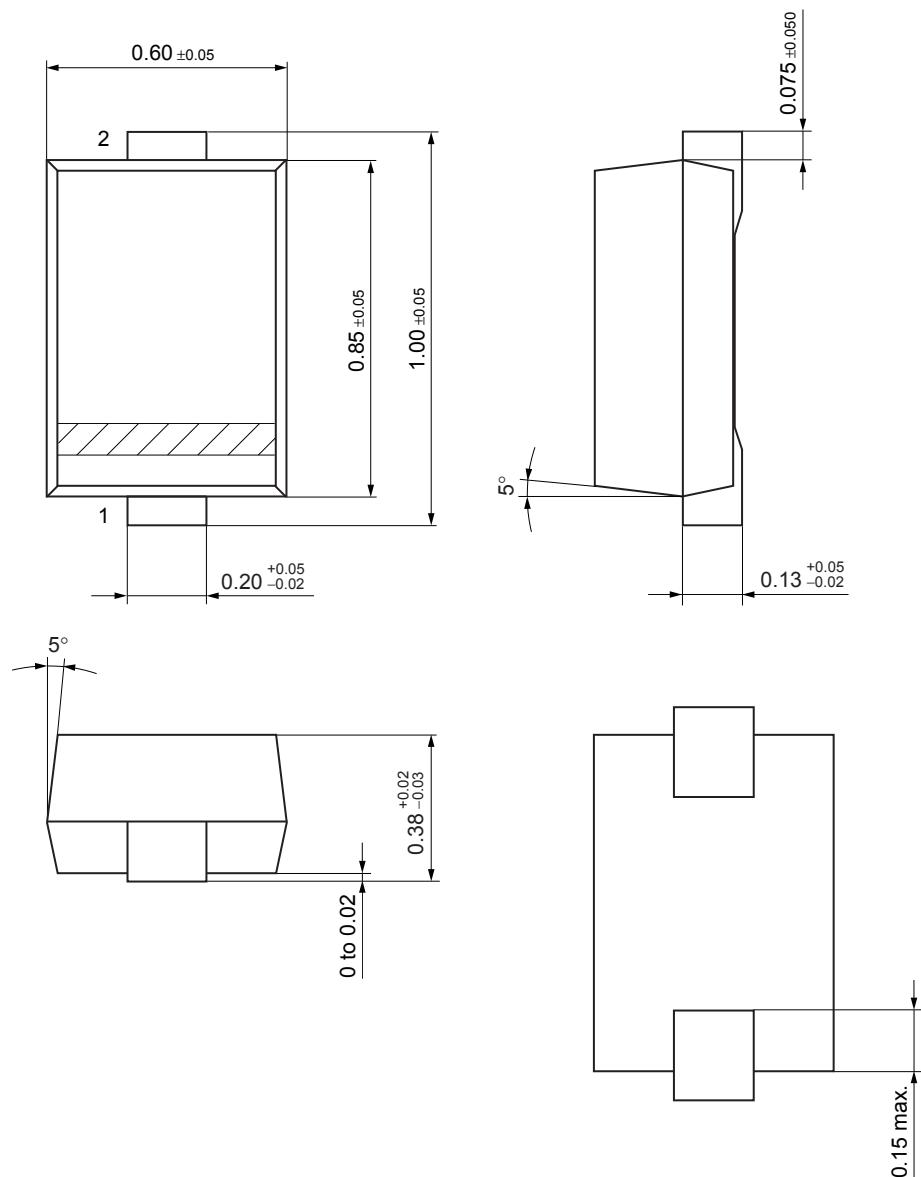
■ Package

- Code USSMini2-F2-B
- Pin Name
 - 1. Cathode
 - 2. Anode

■ Marking Symbol: G

USSMini2-F2-B

Unit: mm



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