

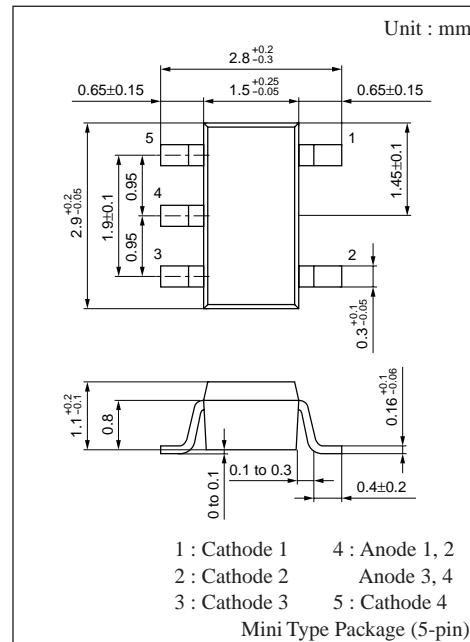
MAZK068D

Silicon planer type

Constant voltage, constant current, waveform
clipper and surge absorption circuit

■ Features

- Mini type package (5-pin)
- Four anode-common element wiring of MA3068



■ Absolute Maximum Ratings (Ta= 25°C)

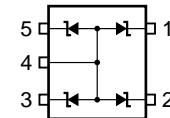
Parameter	Symbol	Rating	Unit
Average forward current	I _{F(AV)}	100 * ¹	mA
Instantaneous forward current	I _{FRM}	200 * ¹	mA
Total power dissipation	P _{tot} * ²	100 * ¹	mW
Non-repetitive reverse surge power dissipation	P _{ZSM} * ³	15	W
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 to + 150	°C

*¹ Working value in a single piece

*² With a printed-circuit board

*³ t=100μ s, T_j=150°C

■ Internal Connection



■ Electrical Characteristics (Ta= 25°C)*¹

Parameter	Symbol	Condition	min	typ	max	Unit
Forward voltage	V _F	I _F =10mA		0.8	0.9	V
Zener voltage	V _Z * ²	I _Z = 5mA	6.40	6.80	7.20	V
Operating resistance	R _{ZK}	I _Z = 0.5mA			140	Ω
	R _Z	I _Z = 5mA		6	15	Ω
Reverse current	I _{R1}	V _R = 4V			2	μA
	I _{R2}	V _R = 5.9V			60	μA
Temperature coefficient of zener voltage	S _Z * ³	I _Z = 5mA	1.2	3.0	4.5	mV/°C
Terminal capacitance	C _t	V _R = 0V, f=1MHz			110	pF

Note 1. Test method : Depend on JIS C7031 testing

2. Rated input/output frequency : 5MHz

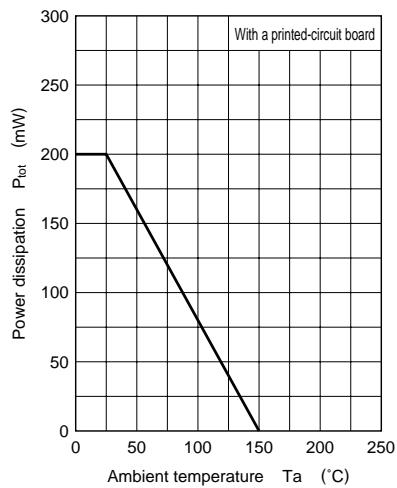
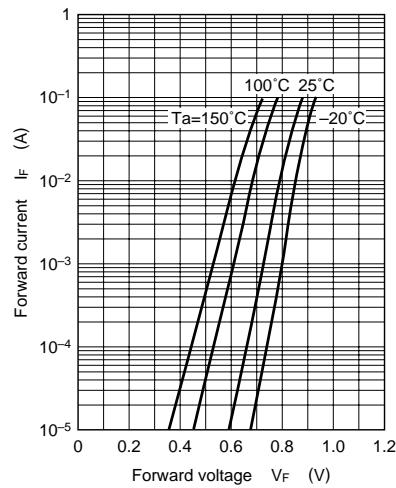
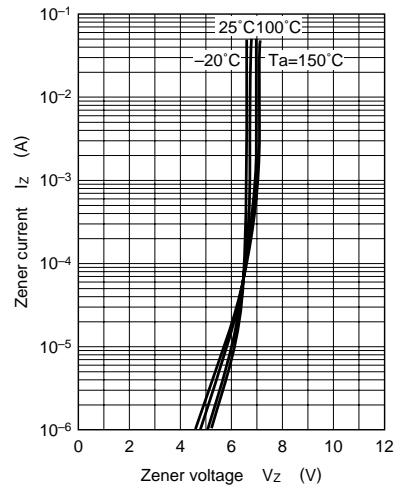
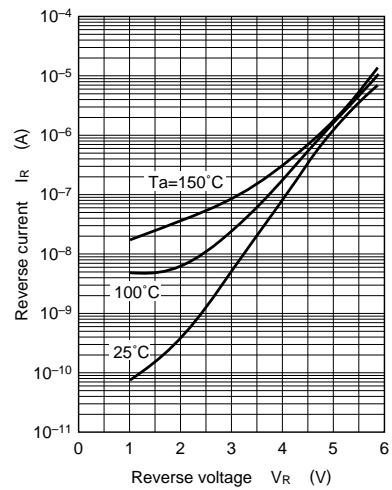
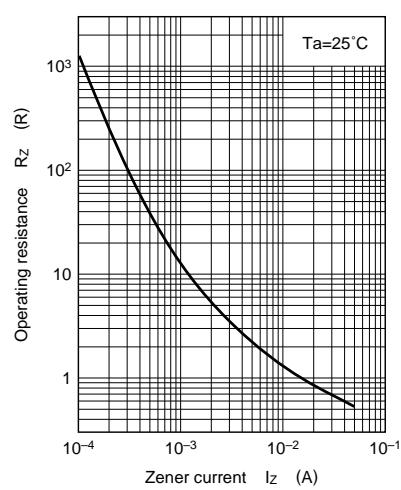
3. *¹ : The V_Z value is for the temperature of 25°C. In other cases, carry out the temperature compensation.

*² : Guaranteed at 20ms after power application

*³ : T_j= 25 to 150°C

■ Marking



$P_{tot} - Ta$  $I_F - V_F$  $I_Z - V_Z$  $I_R - V_R$  $R_Z - I_Z$  $C_t - V_R$ 