MAZK068D

Silicon planer type

Constant voltage, constant current, waveform cripper 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
Instanious 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	Tj	150	°C
Storage temperature	T _{stg}	-55 to + 150	°C

^{*1} Working value in a single piece

■ Electrical Characteristics (Ta= 25°C)*

Parameter	Symbol	Condition	min	typ	max	Unit
Forward voltage	$V_{\rm F}$	I _F =10mA		0.8	0.9	V
Zener voltage	Vz*2	I _Z =5mA	6.40	6.80	7.20	V
Operating resistance	R _{ZK}	$I_Z=0.5$ mA			140	Ω
	R _Z	Iz=5mA		6	15	Ω
Reverse current I _{R2}	I _R (C	$V_R = 4V$			2	μΑ
	I_{R2}	V _R = 5.9V			60	μΑ
Temperature coefficient of zener voltage	Sz*3	I _Z = 5mA	1.2	3.0	4.5	mV/°C
Terminal capacitance	Ct	V _R = 0V, f=1MHz			110	pF

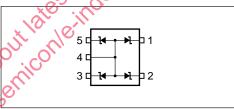
Note 1. Test method: Depend on JIS C7031 testing

■ Marking



Unit:mm 2.8 +0.2 1.5 +0.25 1.5 +0.25 0.65 ± 0.15 0.65 ± 0.15 0.65 ± 0

■ Internal Connection



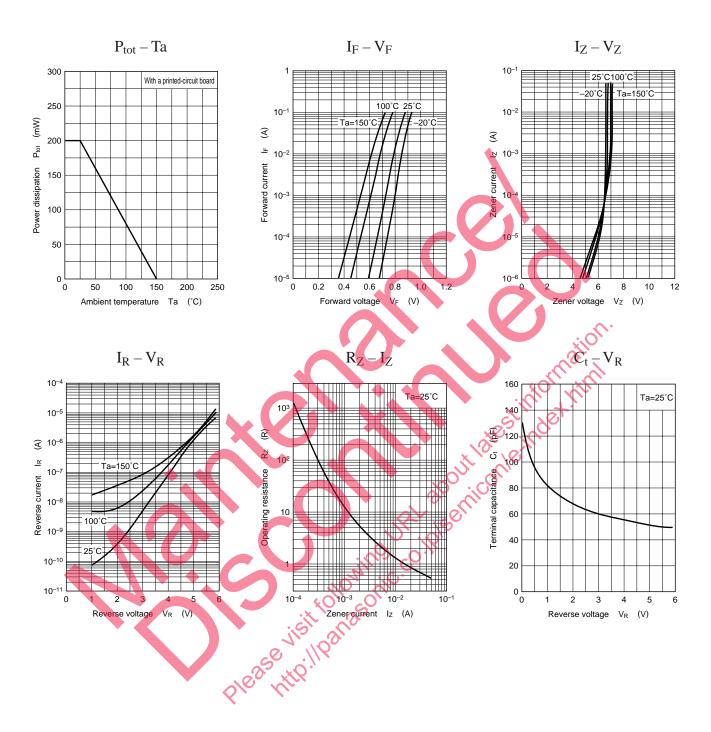
^{*2} With a printed-circuit board

^{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 :} Guaranteeed at 20ms after power application

^{*} 3 : T_{i} = 25 to 150°C



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