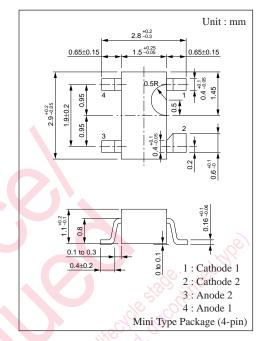
MA3047W

Silicon planer type

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

Features

- Mini type package (4-pin)
- Two-element wiring in parallel of MA3047



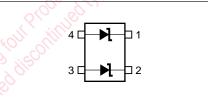
■ Absolute Maximum Ratings (Ta= 25°C)

Parameter		Symbol	Rating	Unit	
Average forward current	Single	I _{F(AV)}	100	mA	
	Double	I _{F(AV)}	75	mA	
Instanious forward current	Single	I _{FRM}	200	mA	
	Double	I _{FRM}	150	mA	
Total power dissipation	Single	Ptot*1	200	mW	
	Double	P _{tot} *1	150	mW	
Non-repetitive reverse surge power dissipation		P _{ZSM} * ²	15	W	
Junction temperature	Tj	150	°C		
Storage temperature	T _{stg}	- 55 to + 150	°C		

*1 With a printed-circuit board

*2 t=100 μ s, T_i=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	Vz*2	Iz= 5mA	4.4	4.7	5.0	V
Operating resistance	R _Z	$I_{Z}=5mA$		50	80	Ω
Reverse current	IR	$V_{R}=1V$			3	μΑ
Temperature coefficient of zener voltage	Sz*3	I _Z = 5mA	- 3.5	-1.4	0.2	mV/°C

Note 1. Rated input/output frequency : 5MHz

2. * 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

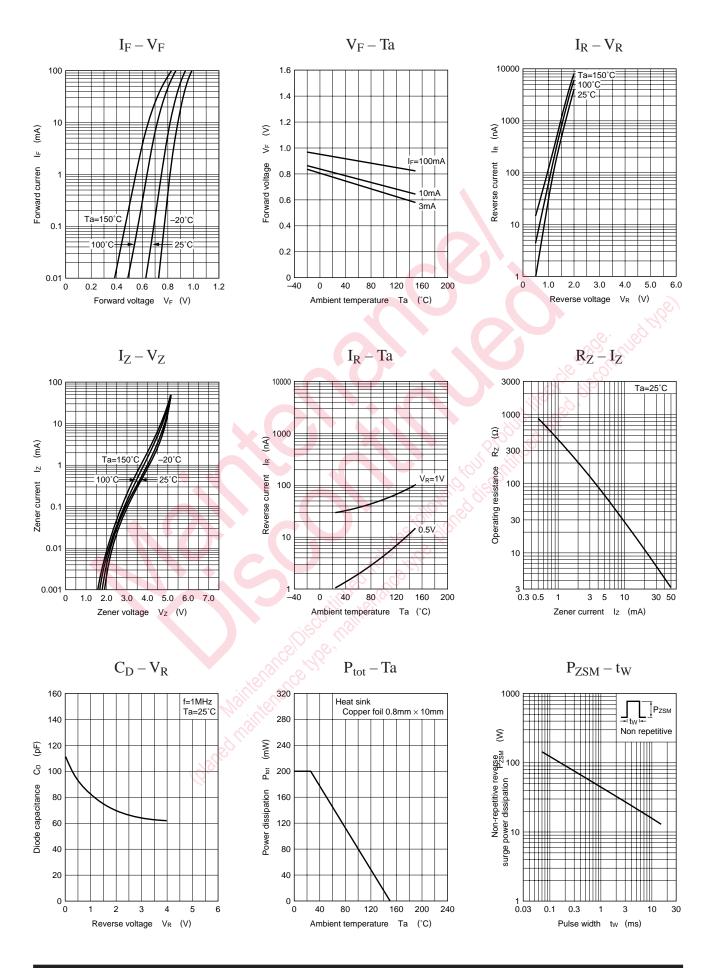
* 3 : T_j= 25 to 125°C

Marking



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MA3047W



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