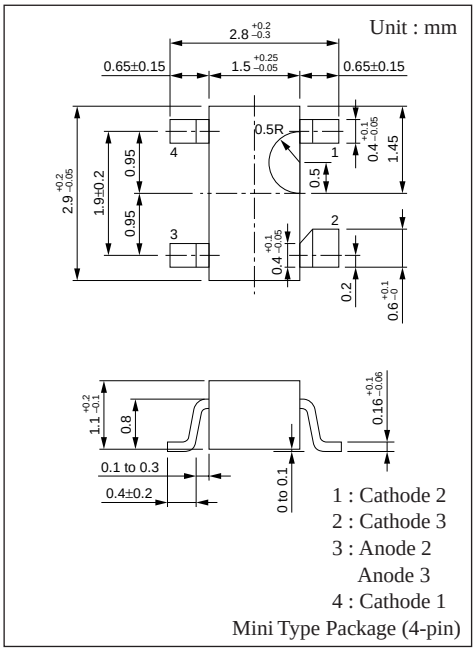
MA3075T

Silicon planer type

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

■ Features

- Mini type package (4-pin)
- Three anode-common wiring of MA3075

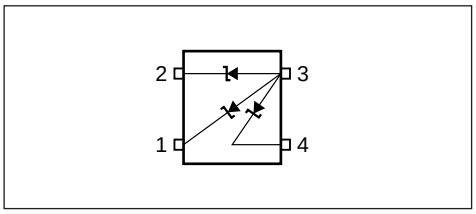


■ Absolute Maximum Ratings (Ta= 25˚C)

Parameter		Symbol	Rating	Unit
Average forward current	Single	$I_{F(AV)}$	100	mA
	Triple	$I_{F(AV)}$	70	mA
Instanious forward current	Single	I_{FRM}	200	mA
	Triple	I_{FRM}	100	mA
Total power dissipation	Single	P_{tot}*	200	mW
	Triple	P_{tot}*	100	mW
Junction temperature		T_j	150	˚C
Storage temperature		T_{stg}	– 55 to + 150	˚C

* With a printed-circuit board

■ Internal Connection



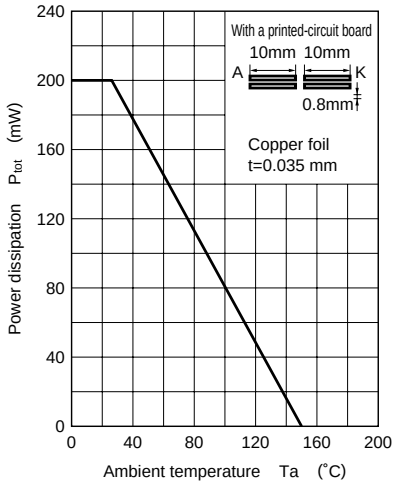
■ Electrical Characteristics (Ta= 25˚C)*1

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	7.0	7.5	7.9	V
Operating resistance	R_{ZK}	I_Z= 0.5mA			120	Ω
	R_Z	I_Z= 5mA		6	15	Ω
Reverse current	I_{R1}	V_R= 5V			1	µA
	I_{R2}	V_R= 6V			2	µA
Temperature coefficient of zener voltage	S_Z*3	I_Z= 5mA	2.5	4.0	5.3	mV/˚C
Terminal capacitance	C_t	V_R= 0V, f=1MHz		80	100	pF

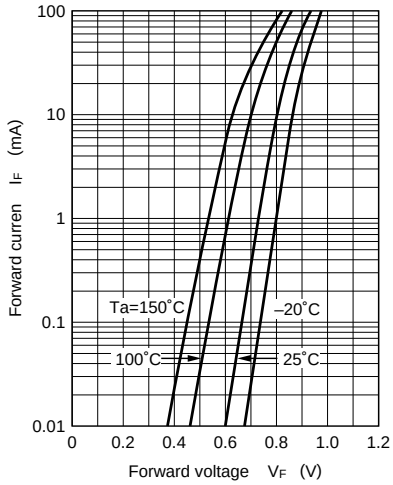
Note *1 : The V_Z value is for the temperature of 25˚C. In other cases, carry out the temperature compensation.
*2 : Guaranteeed at 20ms after power application
*3 : T_j= 25 to 150˚C

■ Marking

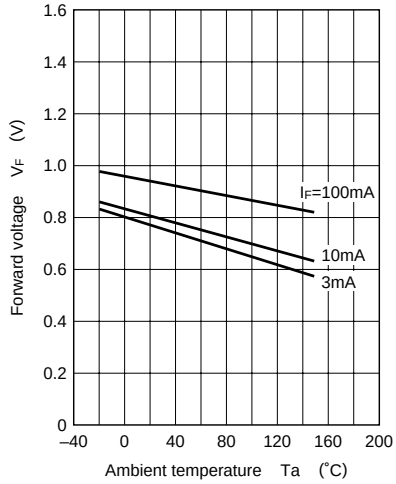
$P_{tot} - Ta$



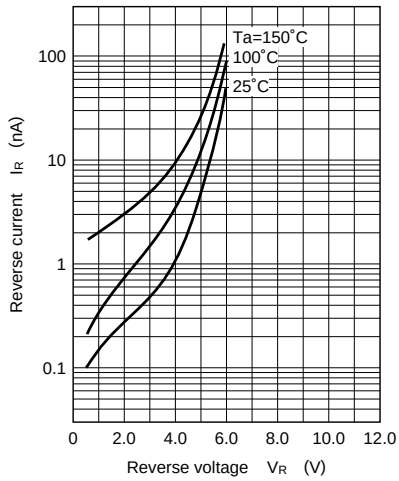
$I_F - V_F$



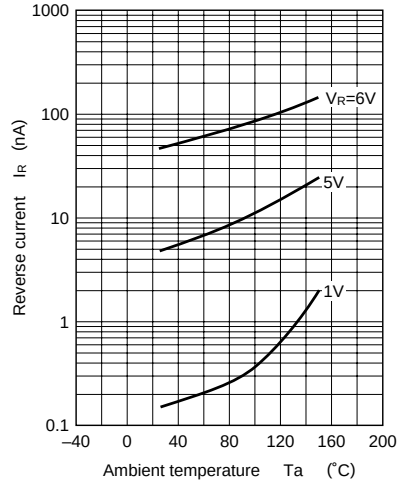
$V_F - Ta$



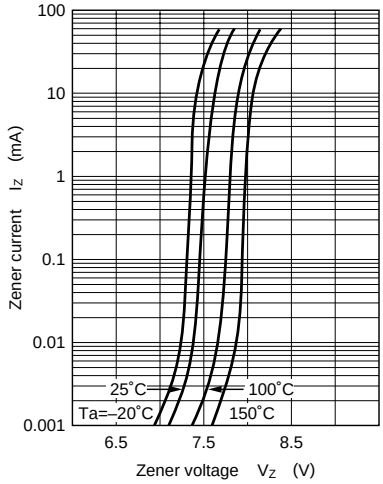
$I_R - V_R$



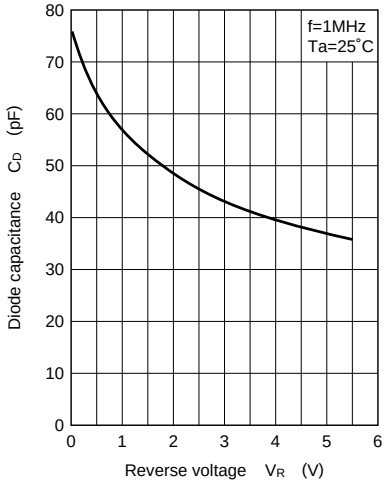
$I_R - Ta$



$I_Z - V_Z$



$C_D - V_R$



$R_Z - I_Z$