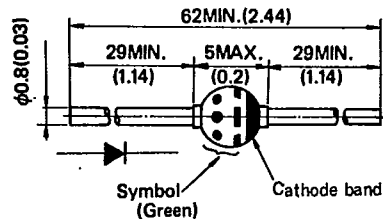


● 逆パワー吸収ダイオード (Suppression Diode)

ZAG100A

6B DE

4496205 0009816 5

 V_{RRM} : 50V~400V
PRM: 100WWeight: 0.35 (g)
Unit in mm(inch)

Type	Color of cathode band
ZAG100A05	Brown
ZAG100A1	Yellow
ZAG100A2	Black
ZAG100A3	Purple
ZAG100A4	Blue

■ MAXIMUM ALLOWABLE RATINGS

Items	Type		ZAG100A05	ZAG100A1	ZAG100A2	ZAG100A3	ZAG100A4
Repetitive Peak Reverse Voltage	V _{RRM}	V	50	100	200	300	400
Repetitive Reverse Power	P _{RM}	W	100 (Rectangular pulse 20μs, Repetitive frequency 400Hz) T _L =80℃, Lead length L=10mm				
Surge (Non-Repetitive) Reverse Power	P _{RSM}	W	530 (Rectangular pulse 20μs, Non-repetitive) T _L =25℃				
Operating Junction Temperature	T _J	℃	-40 ~ +165				
Storage Temperature	T _{stg}	℃	-40 ~ +165				

* LEAD MOUNTING: LEAD TEMPERATURE 300 $^\circ\text{C}$ MAX. TO 3.2mm FROM BODY FOR 5SEC. MAX.リードはんだ揚げ限界: はんだ温度300 $^\circ\text{C}$ 以下。ボディーから3.2mmまで5秒以内。* MECHANICAL STRENGTH: BENDING 90 $^\circ$ $\times$ 2 Cycles, 180 $^\circ$ $\times$ 1 Cycle, TENSILE 2kg, TWIST 90 $^\circ$ $\times$ 1 Cycle.
機械的強度: リード曲げ 90 $^\circ$ 2回 180 $^\circ$ 1回, 引張り2kg, ねじり90 $^\circ$ 1回。■ CHARACTERISTICS ($T_L=25^\circ\text{C}$)

Items	Symbols	Units	Min.	Typ.	Max.	Test Conditions
Peak Reverse Current	I_{RRM}	μA	—	4.0	50	ZAG100A05, ZAG100A1
			—	1.5	20	ZAG100A2, ZAG100A3
			—	0.6	10	ZAG100A4
Avalanche Voltage	V_{AVL}	V	Table 1			$i_R=1.0\text{mA}$, Single-phase half sine wave 1 pps, Time $\leq 5\text{sec}$.
Avalanche Voltage Temperature Coefficient	α	%/ $^\circ\text{C}$	—	0.080	—	$\frac{\Delta V_{AVL}}{V_{AVL}} \times \frac{1}{165-25} \times 100$
Steady State Thermal Impedance	$R_{th(j-a)}$	$^\circ\text{C/W}$	—	—	80	Lead length L=10mm
	$R_{th(j-d)}$		—	—	50	

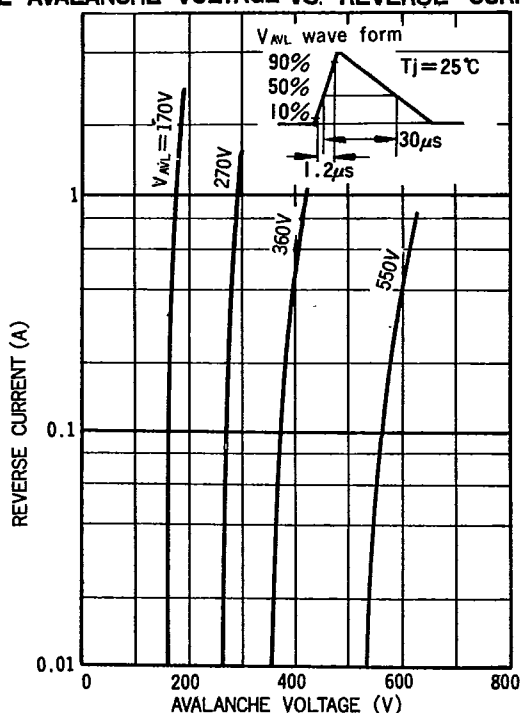
■ TABLE 1

Type		ZAG100A05	ZAG100A1	ZAG100A2	ZAG100A3	ZGA100A4
Avalanche Voltage (V)	Min.	145	230	280	375	465
	Max.	275	415	505	725	805

* In case of the other range of avalanche voltage being required, please get in touch with us.

電圧—電流特性

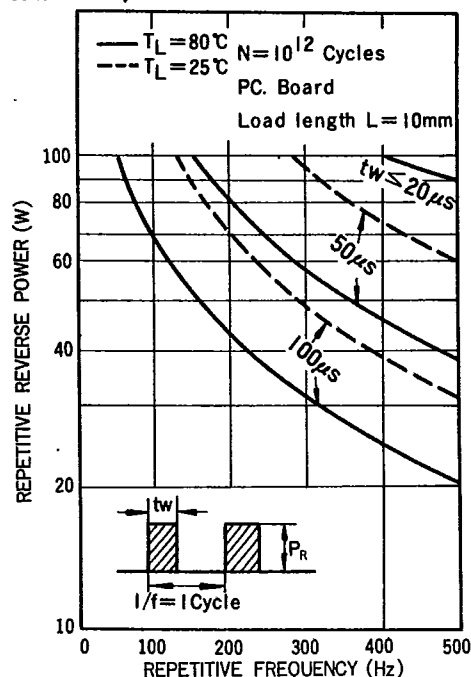
TYPICAL AVALANCHE VOLTAGE VS. REVERSE CURRENT



繰返し許容電力

MAX. REPETITIVE REVERSE POWER

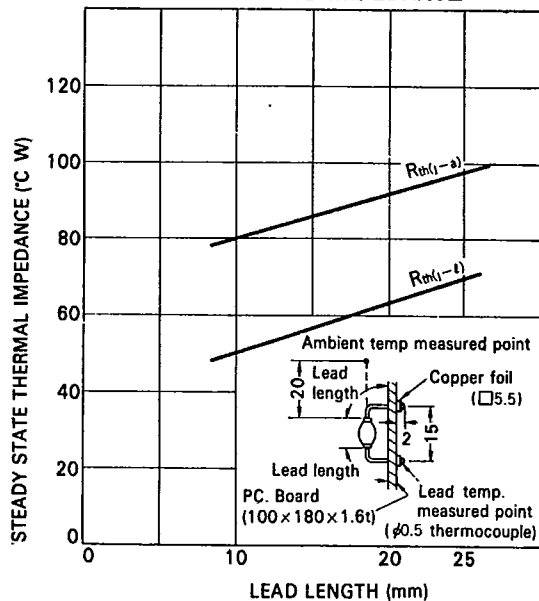
VS. REPETITIVE FREQUENCY (RECTANGULAR PULSE)



ZAG100A

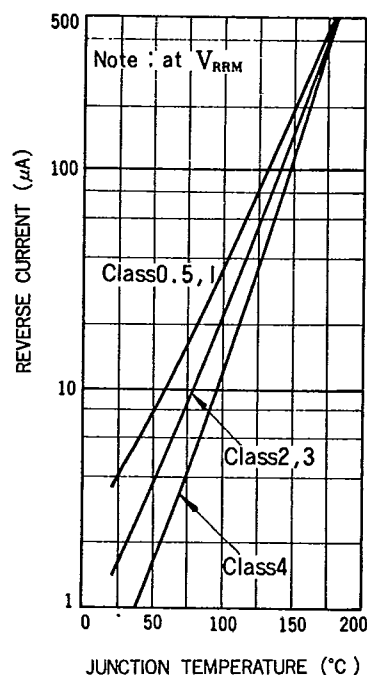
定常熱抵抗

STEADY STATE THERMAL IMPEDANCE



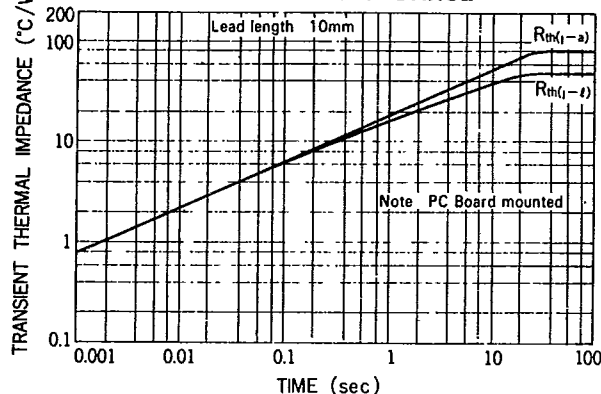
逆電流温度特性 (代表例)

TYP. REVERSE CURRENT VS. JUNCTION TEMPERATURE



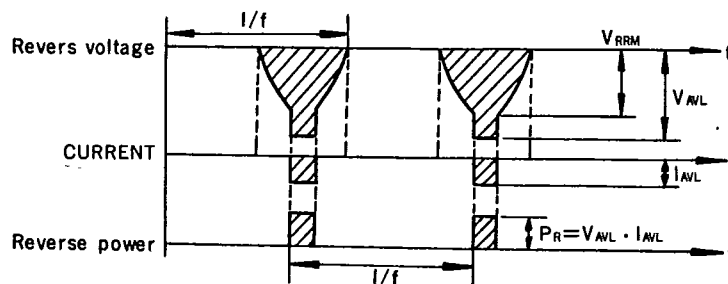
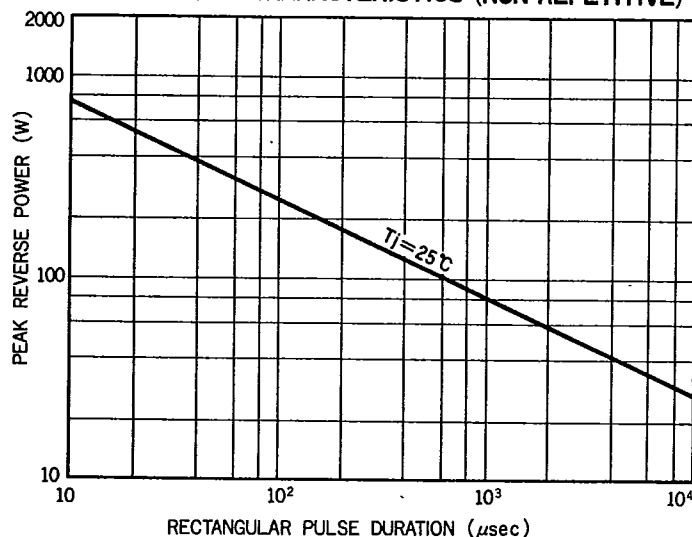
過渡熱インピーダンス

TRANSIENT THERMAL IMPEDANCE



逆耐量特性 (非繰返し)

REVERSE POWER CHARACTERISTICS (NON-REPETITIVE)



- f : Repetitive frequency
- V_{RRM} : Repetitive peak reverse voltage
- V_{AVL} : Avalanche voltage
- I_{AVL} : Avalanche current
- P_R : Reverse power