GENERAL-USE RECTIFIER DIODE

W06

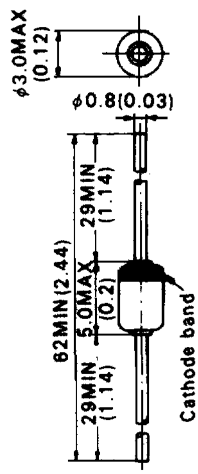
Unit in mm(inch)

■特 長

- 一般電源整流用
- 拡散接合形ガラススリーブ構造

OUTLINE DRAWING

Direction of polarity



Type	Color of cathode band
W06A(50V)	Purple
W06B(100V)	Green
W06C(200V)	Black

Weight : 0.35 (g)

■FEATURES

- For general purpose.
- Diffused-junction. Glass package and hermetically sealed.

■ABSOLUTE MAXIMUM RATINGS

Items	Type		W06A	W06B	W06C
	EIAJ No.		1S2589	1S2590	1S2591
Repetitive Peak Reverse Voltage	V_{RRM}	V	50	100	200
Non-Repetitive Peak Reverse Voltage	V_{RSM}	V	100	150	250
Average Forward Current	$I_{F(AV)}$	A	0.75 (Single-phase half sine wave 180° conduction T_L=100℃, Lead length=10mm)		
Surge (Non-Repetitive) Forward Current	I_{FSM}	A	20 (Without PIV, 10ms conduction, T_j=175℃ start)		
I^2t Limit Value	I^2t	A^2s	1.6 (Time=2~10ms, I=RMS value)		
Operating Junction Temperature	T_j	℃	−65~+175		
Storage Temperature	T_{stg}	℃	−65~+200		

* LEAD MOUNTING: LEAD TEMPERATURE 300℃ 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℃以下、ボディーから3.2mmまで5秒以内。

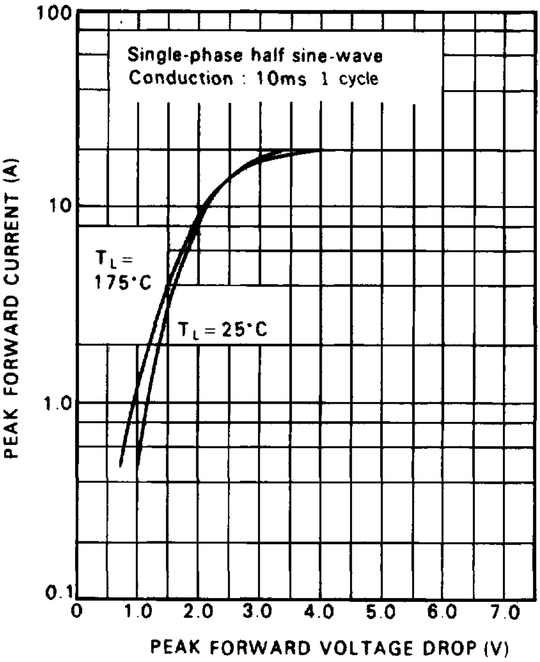
** MECHANICAL STRENGTH : BENDING 90°×2 Cycles or 180°×1 Cycle, TENSILE 2kg, TWIST 90°×1 Cycle.
機械的強度：リード曲げ90° 2回または180° 1回，引張り2kg，ねじり90° 1回。

■CHARACTERISTICS (T_L=25℃)

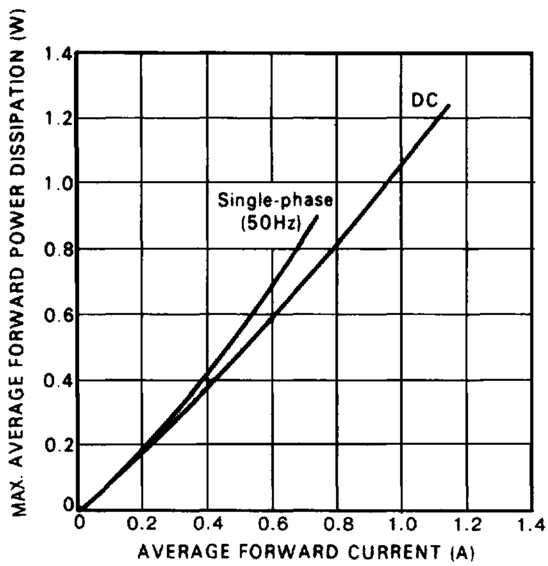
Items	Symbols	Units	Min.	Typ.	Max.	Test Conditions
Peak Reverse Current	I_{RRM}	μA	—	0.3	50	All class, Rated V_{RRM}
Peak Forward Voltage	V_{FM}	V	—	—	1.1	I_{FM}=0.75Ap, Single-phase half sine wave 1cycle
Reverse Recovery Time	t_{rr}	μs	—	3.0	—	I_F=2mA, V_R=−15V
Steady State Thermal Impedance	$R_{th(j-a)}$	℃/W	—	—	120	Lead length=10mm
	$R_{th(j-\ell)}$				80	

W06

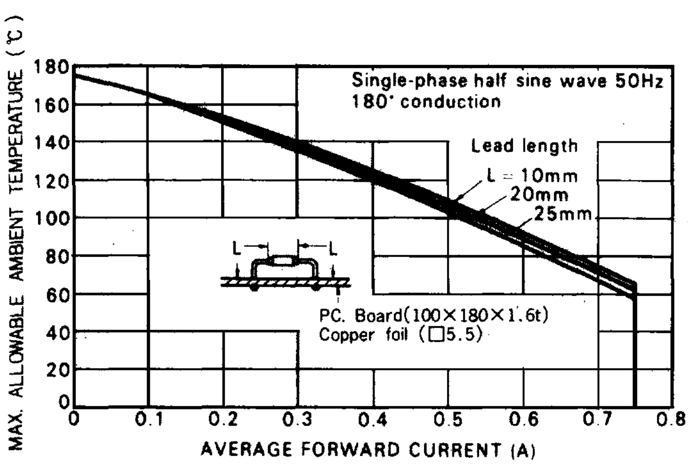
順 特 性
FORWARD CHARACTERISTIC



平均順損失（抵抗，誘導負荷）
MAX. AVERAGE FORWARD POWER DISSIPATION (RESISTIVE OR INDUCTIVE LOAD)

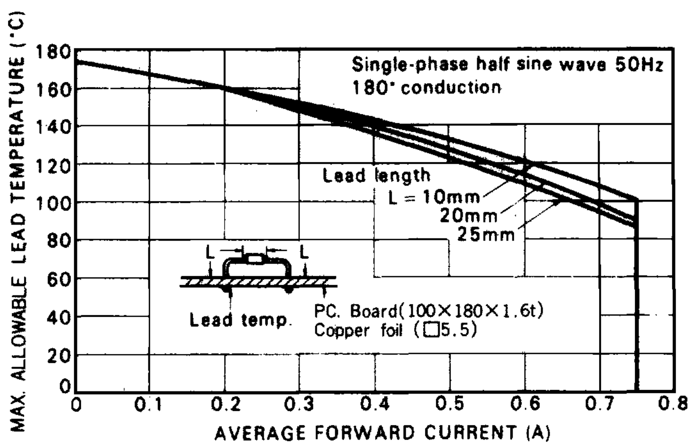


許容周囲温度（抵抗，誘導負荷）
MAX. ALLOWABLE AMBIENT TEMPERATURE (RESISTIVE OR INDUCTIVE LOAD)



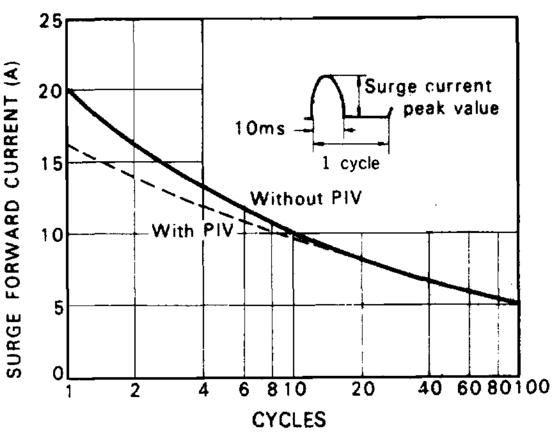
許容リード温度（抵抗，誘導負荷）

MAX. ALLOWABLE LEAD TEMPERATURE (RESISTIVE OR INDUCTIVE LOAD)



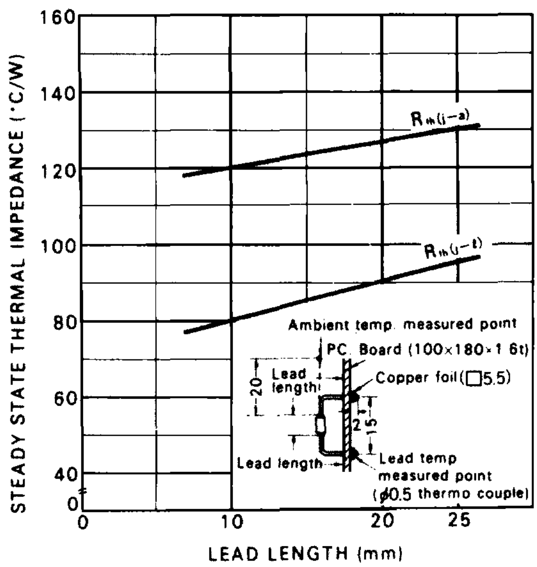
サージ順電流特性（非繰返し）

SURGE FORWARD CURRENT CHARACTERISTIC (NON-REPETITIVE)



定常熱抵抗

STEADY STATE THERMAL IMPEDANCE



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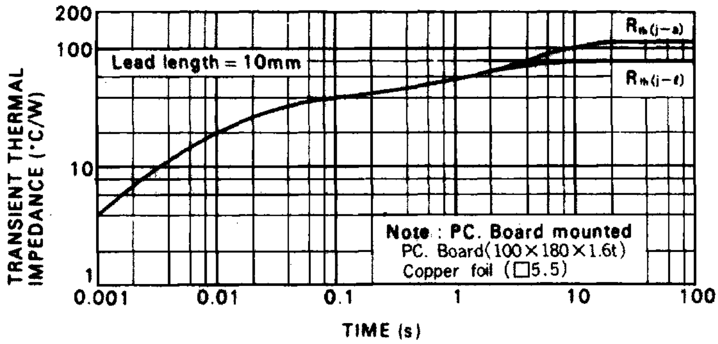
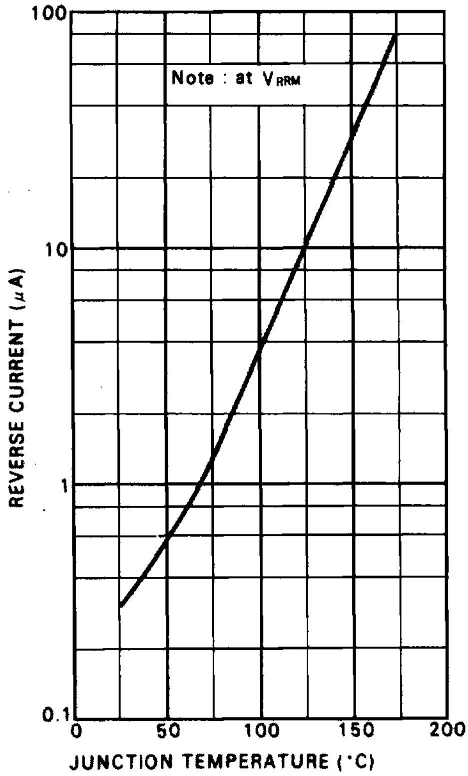
過渡熱インピーダンス
TRANSIENT THERMAL IMPEDANCE



逆電流温度特性
TYP. REVERSE CURRENT VS. JUNCTION TEMPERATURE



逆回復時間 (trr) 試験回路
REVERSE RECOVERY TIME (trr) TEST CIRCUIT