



W06

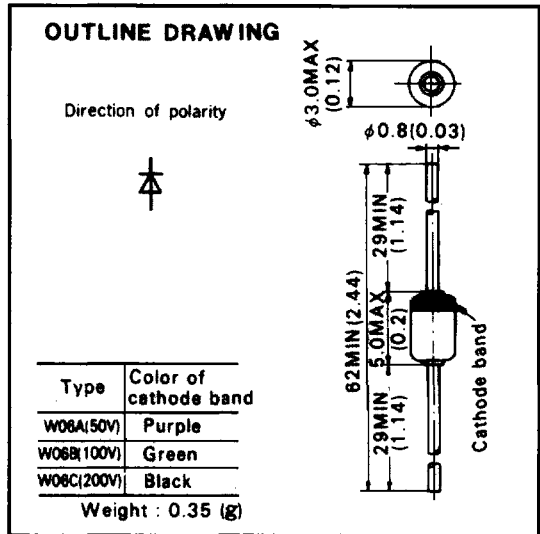
Unit in mm(inch)

■特長

- 一般電源整流用
- 拡散接合形ガラススリーブ構造

■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_{FLAV} | A | 0.75 (Single-phase half sine wave 180° conduction) $T_L = 100^\circ\text{C}$, Lead length=10mm | | |
| Surge (Non-Repetitive) Forward Current | I_{FSM} | A | 20 (Without PIV, 10ms conduction, $T_L = 175^\circ\text{C}$ start) | | |
| I^2t Limit Value | I^2t | A^2S | 1.6 (Time=2~10ms, I=RMS value) | | |
| Operating Junction Temperature | T_j | $^\circ\text{C}$ | -65~+175 | | |
| Storage Temperature | T_{stg} | $^\circ\text{C}$ | -65~+200 | | |

* LEAD MOUNTING: LEAD TEMPERATURE 300°C MAX. TO 3.2mm FROM BODY FOR 5SEC. MAX.

リードはんだ付け限界: はんだ温度300°C以下、ホテューから3.2mmまで5秒以内。

** MECHANICAL STRENGTH : BENDING 90°×2 Cycles or 180°×1 Cycle, TENSILE 2kg, TWIST 90°×1 Cycle.

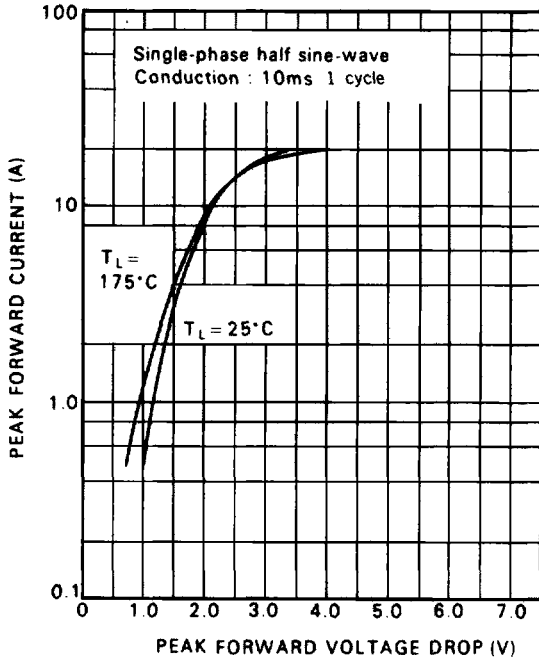
機械的強度: リード曲げ90° 2回または180° 1回, 引張り2kg, ねじり90° 1回。

■CHARACTERISTICS ($T_L = 25^\circ\text{C}$)

| 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 | $I_{FM} = 0.75A_p$, Single-phase half sine wave 1 cycle |
| Reverse Recovery Time | t_{rr} | μS | — | 3.0 | — | $I_F = 2\text{mA}$, $V_R = -15\text{V}$ |
| Steady State Thermal Impedance | $R_{th(j-a)}$ | $^\circ\text{C}/\text{W}$ | — | — | 120 | Lead length=10mm |
| | $R_{th(j-l)}$ | | | | 80 | |

順特性

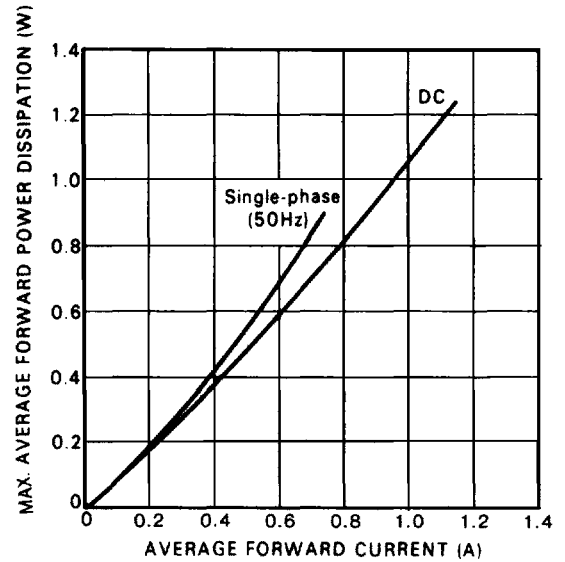
FORWARD CHARACTERISTIC



平均順損失 (抵抗、誘導負荷)

MAX. AVERAGE FORWARD POWER DISSIPATION

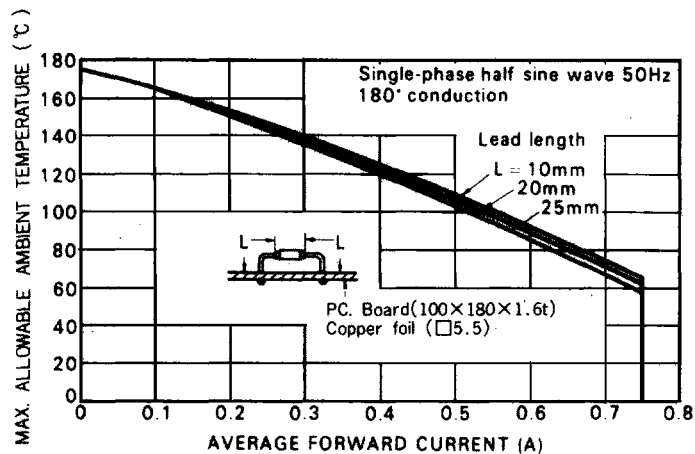
(RESISTIVE OR INDUCTIVE LOAD)



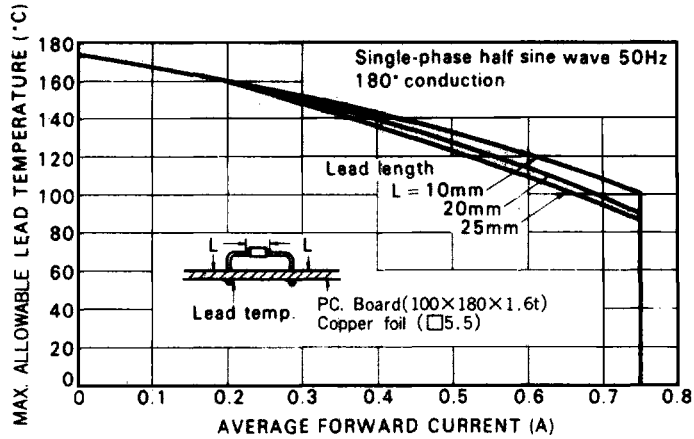
許容周囲温度 (抵抗、誘導負荷)

MAX. ALLOWABLE AMBIENT

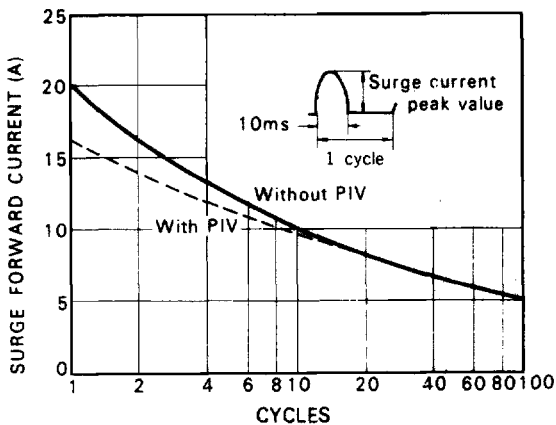
TEMPERATURE (RESISTIVE OR INDUCTIVE LOAD)



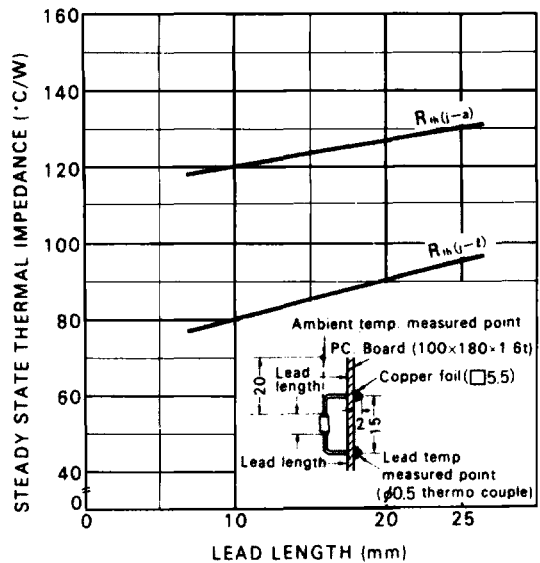
許容リード温度 (抵抗, 誘導負荷)
MAX. ALLOWABLE LEAD TEMPERATURE
(RESISTIVE OR INDUCTIVE LOAD)



サージ順電流特性 (非繰返し)
SURGE FORWARD CURRENT
CHARACTERISTIC (NON-REPETITIVE)

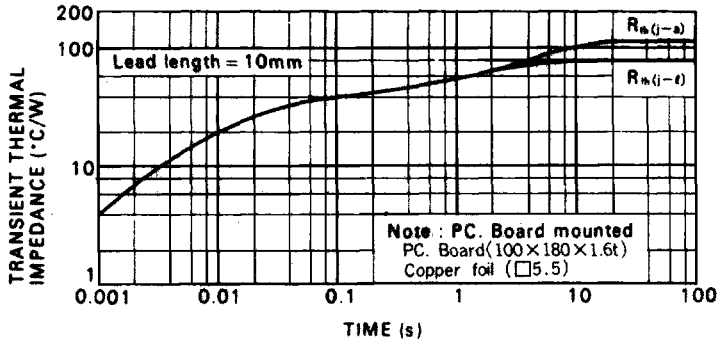


定常熱抵抗
STEADY STATE THERMAL IMPEDANCE



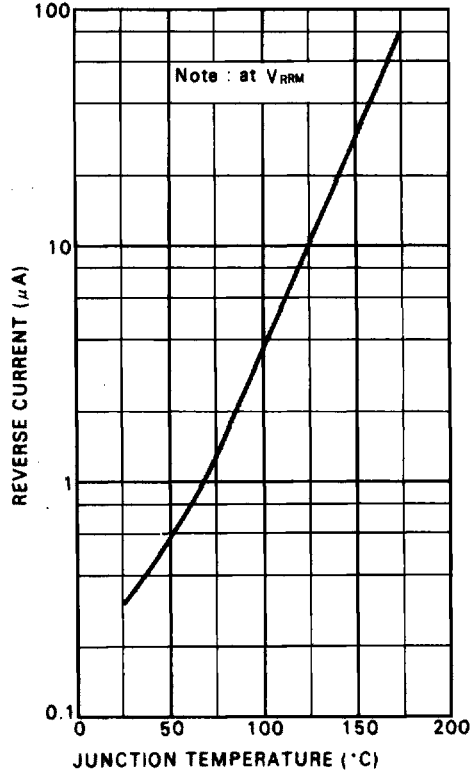
過渡熱インピーダンス

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

