



W03

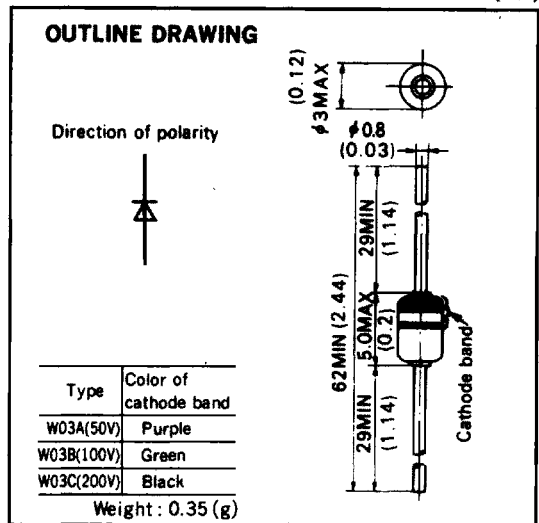
Unit in mm(inch)

■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		W03A	W03B	W03C
	EIAJ No.		1SR55-50	1SR55-100	1SR55-200
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_{FAV}	A	1.0 (Single-phase half sine wave 180° conduction) $T_L = 85^\circ\text{C}$, Lead length=10mm		
Surge (Non-Repetitive) Forward Current	I_{FSM}	A	20 (Without PIV, 10ms conduction, $T_J = 175^\circ\text{C}$ start)		
I ² t Limit Value	I ² t	A ² s	1.6 (Time=2~10ms, I=RMS value)		
Operating Junction Temperature	T_J	°C	-65 ~ +175		
Storage Temperature	T_{STG}	°C	-65 ~ +200		

* LEAD MOUNTING: LEAD TEMPERATURE 300°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°C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.

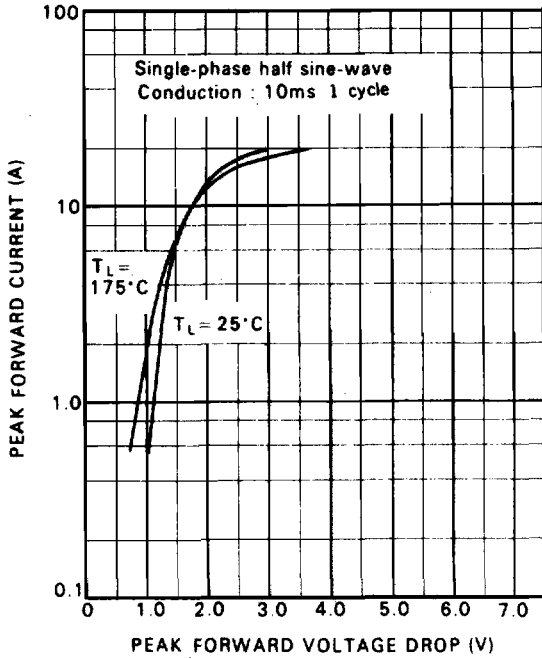
機械の強度: リード曲げ90° 2回または180° 1回, 引張り2kg, ねじり90° 1回。

■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	$I_{FM} = 1.0\text{A}$, 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	$R_{th(j-a)}$	°C/W	—	—	120	Lead length=10mm
	$R_{th(j-l)}$				80	

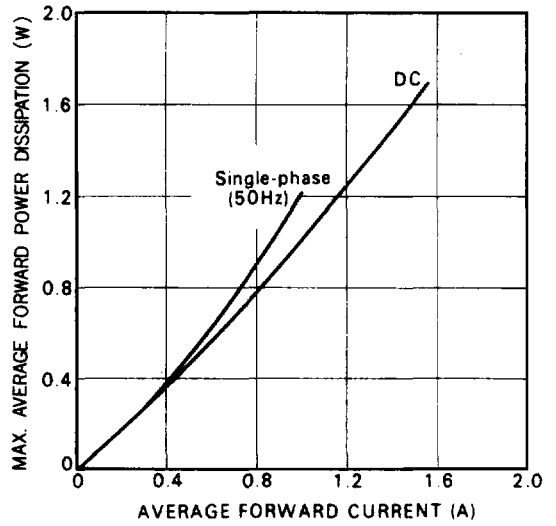
順特性

FORWARD CHARACTERISTIC



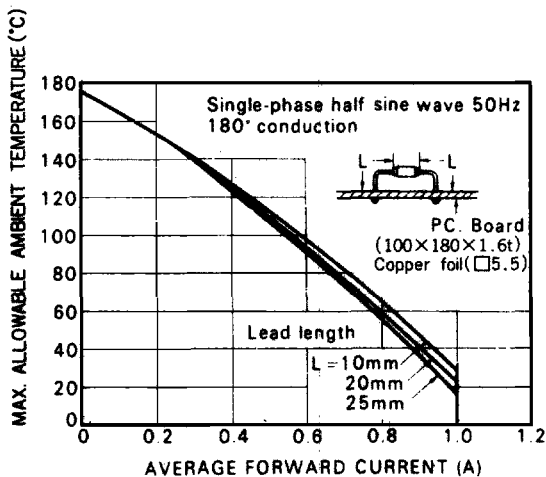
平均順損失(抵抗, 誘導負荷)

MAX. AVERAGE FORWARD POWER DISSIPATION (RESISTIVE OR INDUCTIVE LOAD)



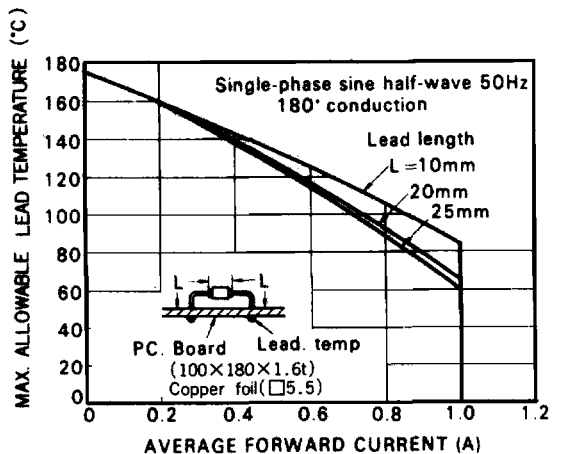
許容周囲温度(抵抗, 誘導負荷)

MAX. ALLOWABLE AMBIENT TEMPERATURE (RESISTIVE OR INDUCTIVE LOAD)

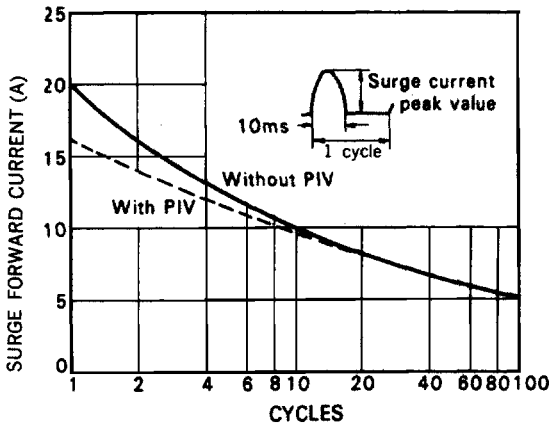


許容リード温度(抵抗, 誘導負荷)

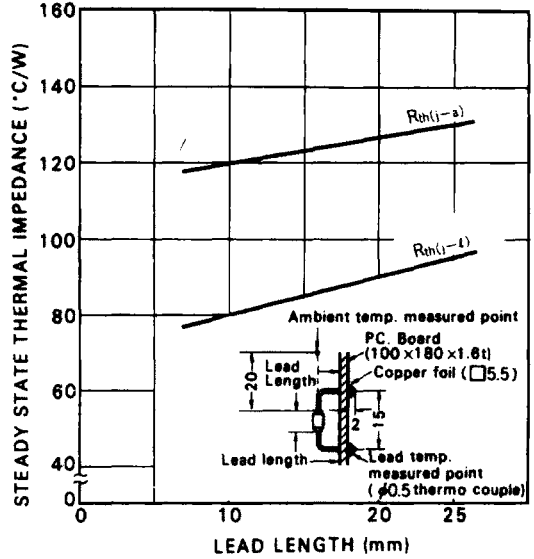
MAX. ALLOWABLE LEAD TEMPERATURE (RESISTIVE OR INDUCTIVE LOAD)



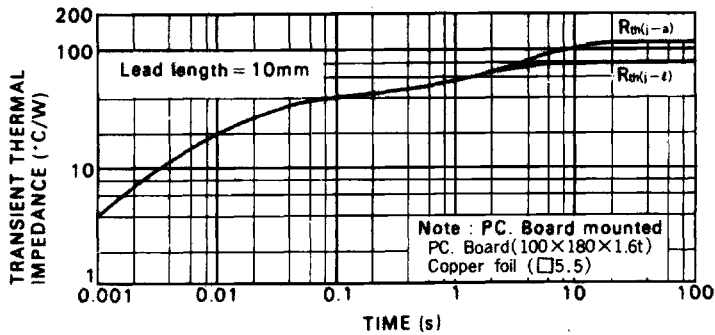
サージ順電流特性 (非繰返し)
SURGE FORWARD CURRENT CHARACTERISTIC (NON-REPETITIVE)



定常熱抵抗
STEADY STATE THERMAL IMPEDANCE

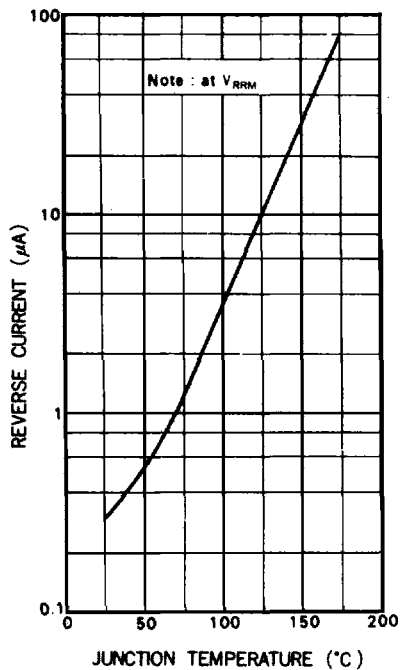


過渡熱インピーダンス
TRANSIENT THERMAL IMPEDANCE



逆電流溫度特性

TYP. REVERSE CURRENT VS. JUNCTION TEMPERATURE



逆回復時間 (t_{rr}) 試驗回路

REVERSE RECOVERY TIME (t_{rr}) TEST CIRCUIT

