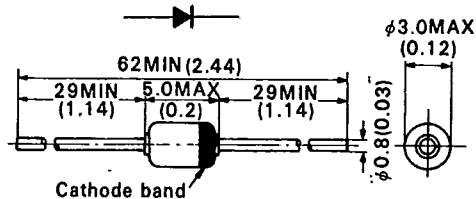


● 一般整流用シリコンダイオード (General-Use Rectifier Diode)

W06

68 DE 4496205 0009788 4

 V_{RRM} : 50V~200V $I_{F(AV)}$: 0.75A

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

Weight: 0.35 (g)
Unit in mm(inch)

■ MAXIMUM ALLOWABLE 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) $T_L=100^\circ\text{C}$, Lead length=10mm		
Surge (Non-Repetitive) Forward Current	I_{FSM}	A	20 (Without PIV, 10msec. conduction, $T_j=175^\circ\text{C}$ start)		
I^2t Limit Value	I^2t	A ² sec.	1.6 (Time=2~10msec. 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.

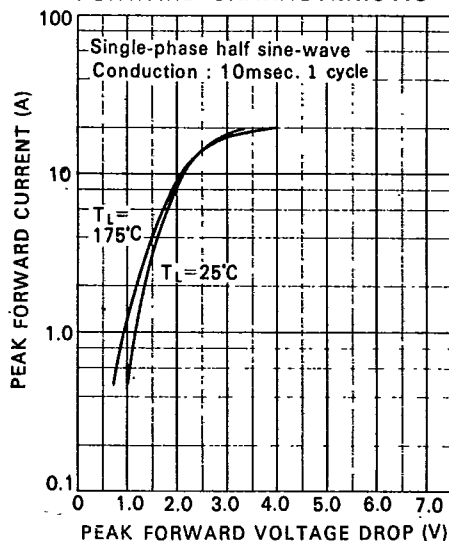
リードはんだ揚げ限界: はんだ温度300°C以下。ボディから3.2mmまで5秒以内。

* MECHANICAL STRENGTH: BENDING 90°×2 Cycles, 180°×1 Cycle, TENSILE 2kg, TWIST 90°×1 Cycle.
機械的強度: リード曲げ 90° 2回, 180° 1回, 引張り 2kg, おじり 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}	$\mu\text{sec.}$	—	3.0	—	$I_F=2mA$, $V_R=-15V$
Steady State Thermal Impedance	$R_{th(j-a)}$	°C/W	—	—	120	Lead length=10mm
	$R_{th(j-l)}$				80	

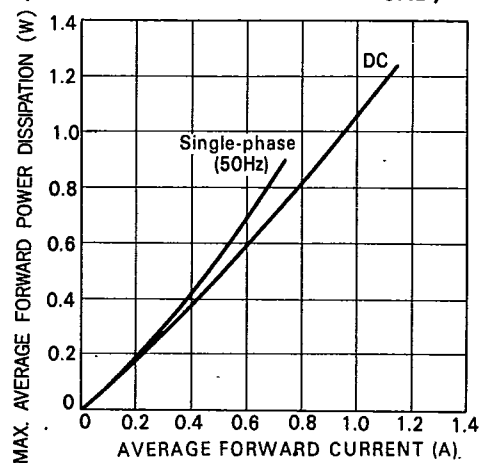
順特性

FORWARD CHARACTERISTIC



平均順損失 (抵抗, 誘導負荷)

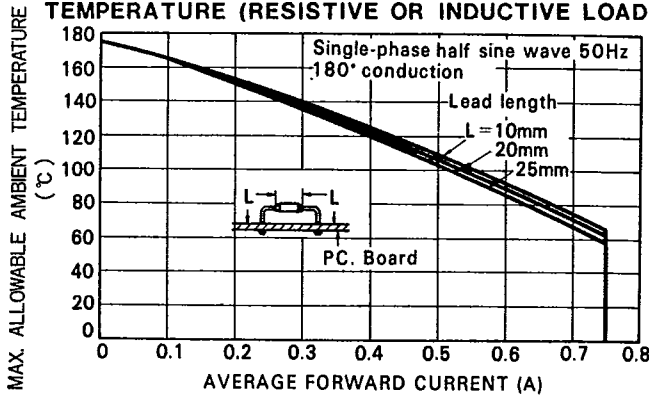
MAX. AVERAGE POWER DISSIPATION (RESISTIVE OR INDUCTIVE LOAD)



W06

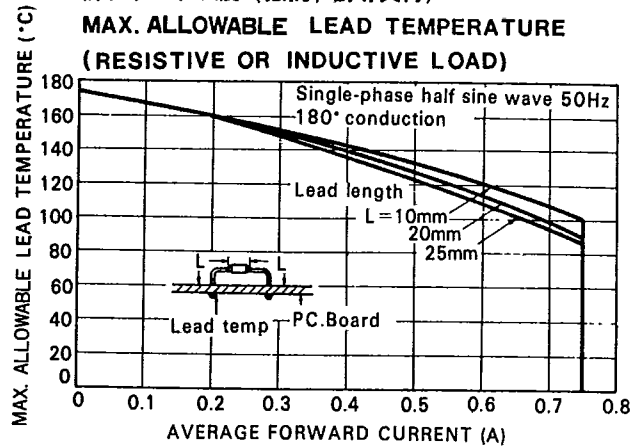
許容周囲温度 (抵抗, 誘導負荷)

MAX. ALLOWABLE AMBIENT TEMPERATURE (RESISTIVE OR INDUCTIVE LOAD)



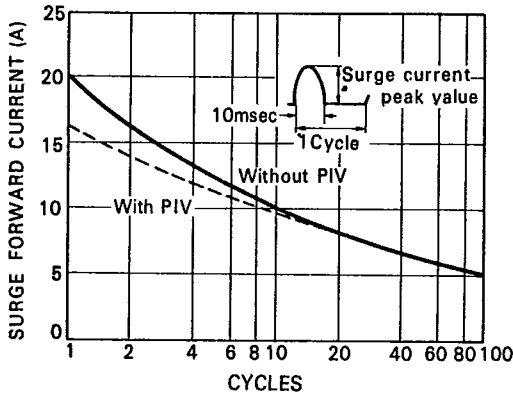
許容リード温度 (抵抗, 誘導負荷)

MAX. ALLOWABLE LEAD TEMPERATURE (RESISTIVE OR INDUCTIVE LOAD)



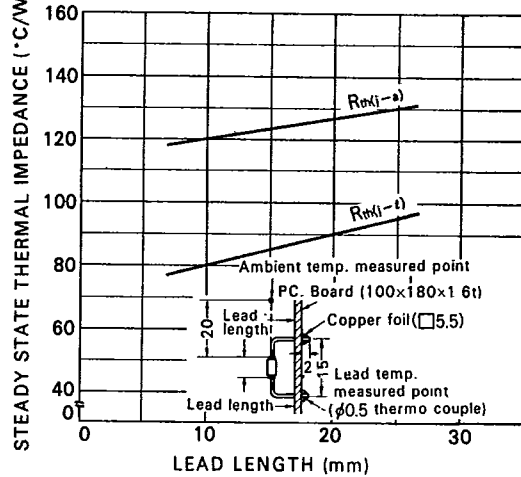
サージ順電流特性 (非繰返し)

SURGE FORWARD CURRENT CHARACTERISTIC (NON-REPETITIVE)



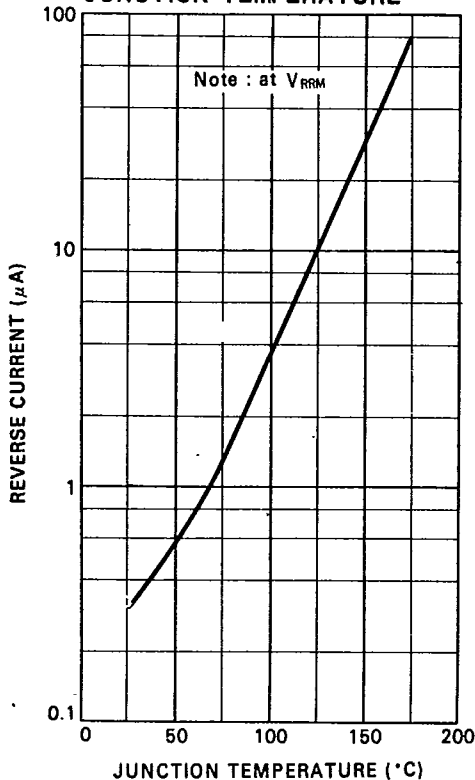
定常熱抵抗

STEADY STATE THERMAL IMPEDANCE



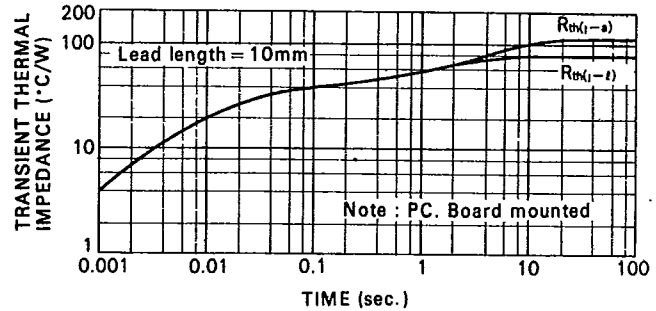
逆電流温度特性

TYP. REVERSE CURRENT VS. JUNCTION TEMPERATURE



過熱インピーダンス

TRANSIENT THERMAL IMPEDANCE



逆回復時間 (trr) 試験回路

REVERSE RECOVERY TIME (trr) TEST CIRCUIT

