

DFM1A

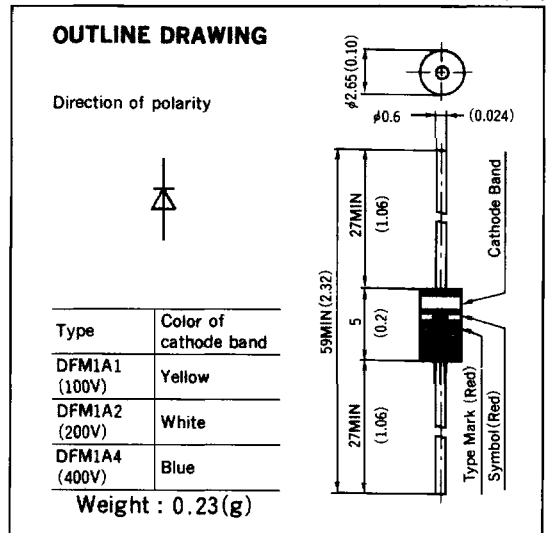
Unit in mm(inch)

■特長

- 高速スイッチング用
- 拡散接合形レジンモールド構造

■FEATURES

- For high speed switching.
- Diffused-junction. Resin encapsulated.



■ABSOLUTE MAXIMUM RATINGS

Items	Type	DFM1A1	DFM1A2	DFM1A4
Repetitive Peak Reverse Voltage	V_{RRM} V	100	200	400
Average Forward Current	$I_{F(AV)}$ A	0.8 (Single-phase half sine wave 180°conduction) $T_L = 60^\circ\text{C}$, Lead length = 10mm		
Surge(Non-Repetitive) Forward Current	I_{FSM} A	30(Without PIV, 10ms conduction, $T_J = 150^\circ\text{C}$ start)		
I^2t Limit Value	I^2t A ² s	3.6(Time = 2~10ms, I = RMS value)		
Operating Junction Temperature	T_J °C	-40 ~ +150		
Storage Temperature	T_{stg} °C	-40 ~ +150		

* LEAD MOUNTING : LEAD TEMPERATURE 280°C MAX. TO 3.2mm FROM BODY FOR 5 SEC. MAX.

リードはんだ揚げ限界 : はんだ温度280°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.

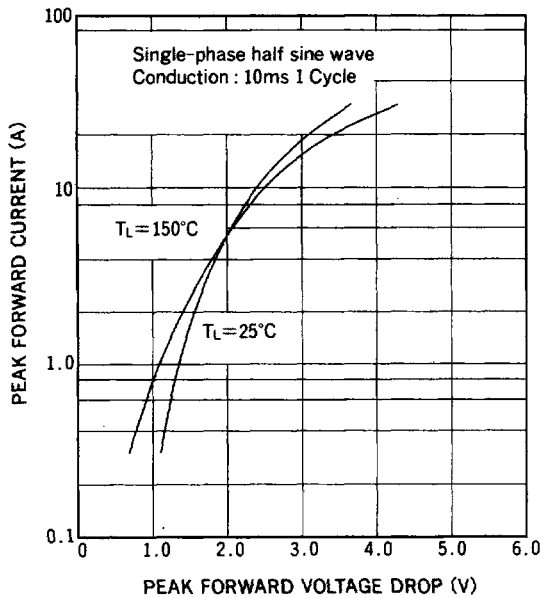
機械的強度 : リード曲げ90°2回または180°1回, 引張り2kg, ねじり90°1回。

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

Items	Symbols	Units	Min.	Typ.	Max.	Test Conditions
Peak Reverse Current	I_{RRM}	μA	—	—	20	DFM1A1,2 DFM1A4
			—	—	10	
Peak Forward Voltage	V_{FM}	V	—	—	1.3	$I_{FM} = 0.8\text{A}$, Single-phase half sine wave 1 cycle
Reverse Recovery Time	t_{rr}	μs	—	—	0.2	$I_F = 0.5\text{A}$, $I_{rp} = 1.0\text{A}$, 25% Recovery
Steady State Thermal Impedance	$R_{th(j-a)}$	°C/W	—	—	110	Lead length = 10mm
	$R_{th(j-l)}$		—	—	80	

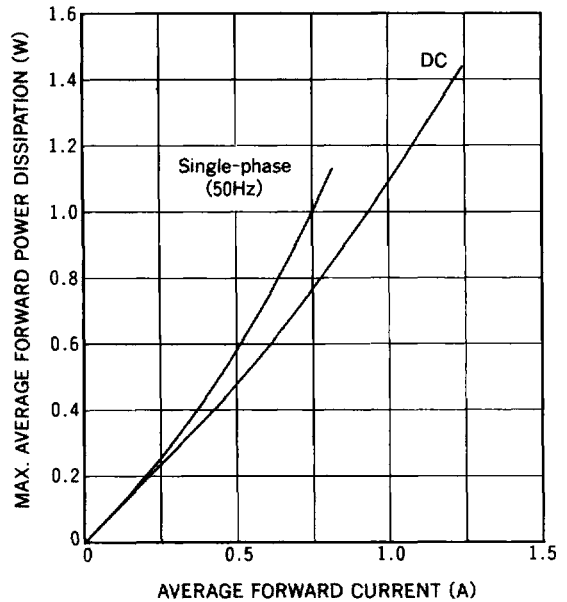
順特性

FORWARD CHARACTERISTIC



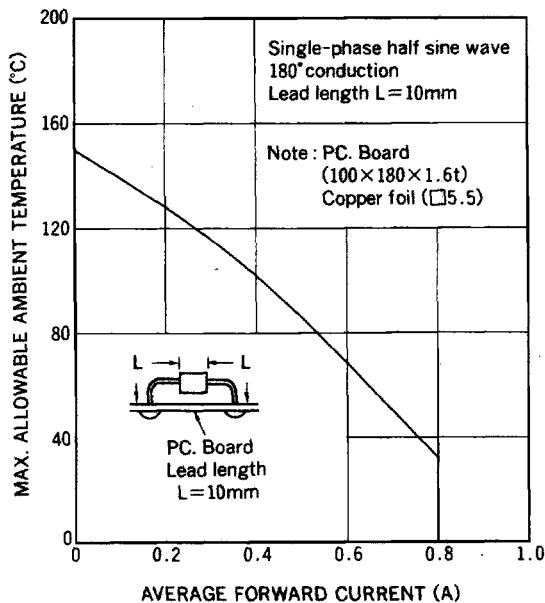
平均順損失 (抵抗、誘導負荷)

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



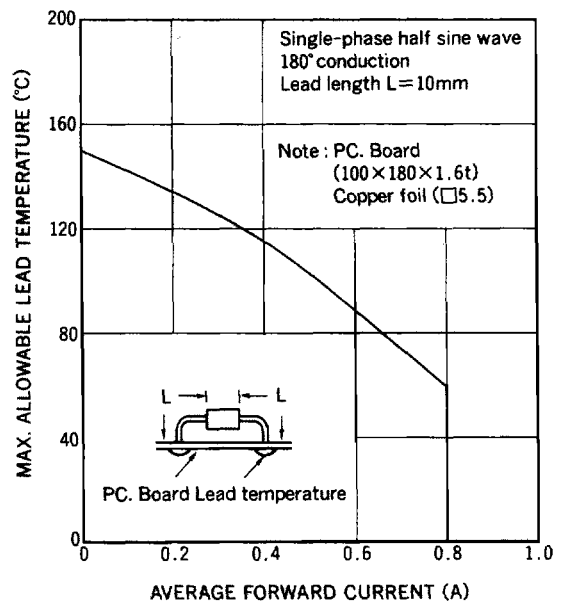
許容周囲温度 (抵抗、誘導負荷)

MAX. ALLOWABLE AMBIENT TEMPERATURE (RESISTIVE OR INDUCTIVE LOAD)



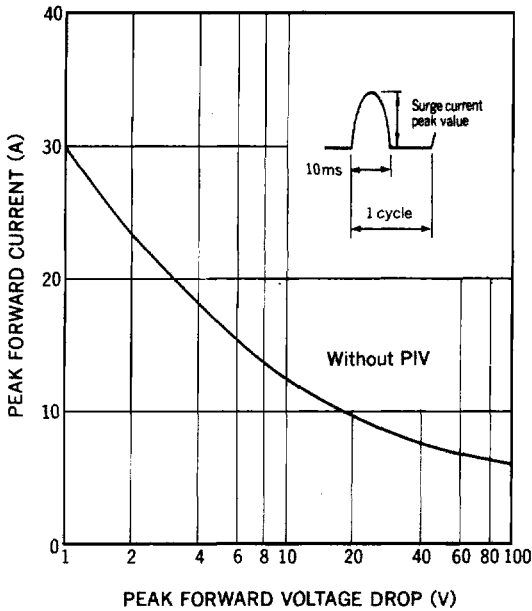
許容リード温度 (抵抗、誘導負荷)

MAX. ALLOWABLE LEAD TEMPERATURE (RESISTIVE OR INDUCTIVE LOAD)



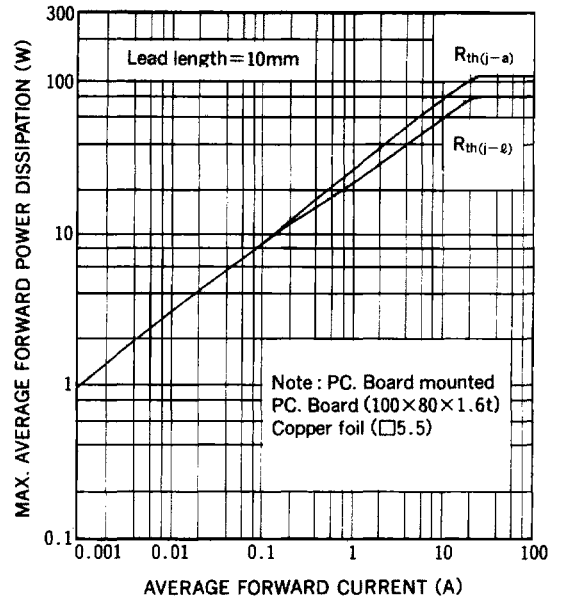
サージ順電流特性 (非繰返し)

SURGE FORWARD CURRENT CHARACTERISTIC (NON-REPETITIVE)



過渡熱インピーダンス

TRANSIENT THERMAL IMPEDANCE



逆回復時間 (t_{rr}) 試験回路

REVERSE RECOVERY TIME (t_{rr}) TEST CIRCUIT

