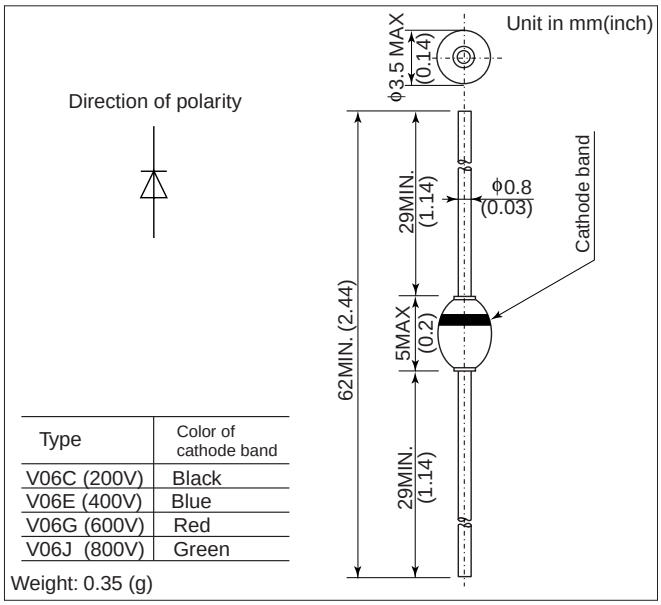
V06

FEATURES

- For general purpose.
- Diffused-junction. Glass passivated and encapsulated.

OUTLINE DRAWING



Type	Color of cathode band
V06C (200V)	Black
V06E (400V)	Blue
V06G (600V)	Red
V06J (800V)	Green

Weight: 0.35 (g)

ABSOLUTE MAXIMUM RATINGS

Item	Type		V06C	V06E	V06G	V06J
Repetitive Peak Reverse Voltage	V_{RRM}	V	200	400	600	800
Non-Repetitive Peak Reverse Voltage	V_{RSM}	V	300	500	800	1000
Average Forward Current	$I_{F(AV)}$	A	1.1 (Single-phase half sine wave 180° conduction, TL = 90°C, Lead length = 10mm)			
Surge(Non-Repetitive) Forward Current	I_{FSM}	A	35 (Without PIV, 10ms conduction, Tj = 175°C start)			
I^2t Limit Value	I^2t	A^2s	4.9 (Time = 2 ~ 10ms, I = RMS value)			
Operating Junction Temperature	T_j	°C	-65 ~ +175			
Storage Temperature	T_{stg}	°C	-65 ~ +200			

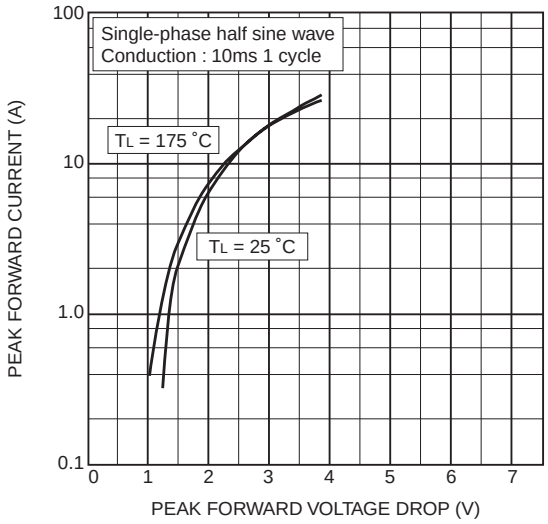
Notes (1) Lead Mounting : Lead Temperature 300°C max. to 3.2mm from body for 5sec. Max..
(2) Mechanical Strength : Bending 90°×2 cycles or 180°×1 cycle, Tensile 2kg, Twist 90°×1 cycle.

CHARACTERISTICS(T_L=25°C)

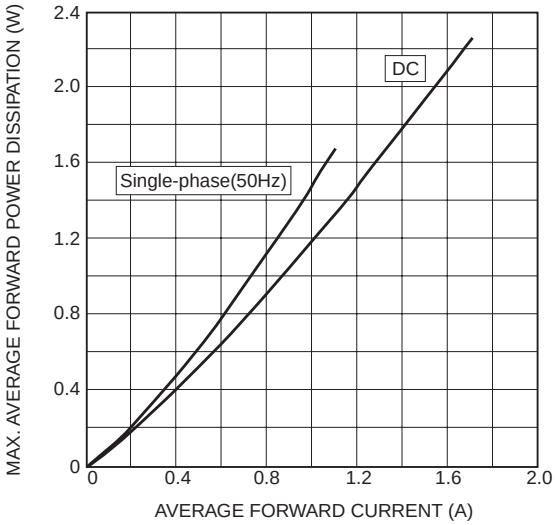
Item	Symbols	Units	Min.	Typ.	Max.	Test Conditions	
Peak Reverse Current	I_{RRM}	μA	—	1.5	20	C class	Rated V_{RRM}
				0.6	10	E,G,J class	
Peak Forward Voltage	V_{FM}	V	—	—	1.4	I_{FM}=1.1Ap, Single-phase half sine wave 1 cycle	
Reverse Recovery Time	trr	μs	—	3.0	—	I_F=2mA, V_R=-15V	
Steady State Thermal Impedance	$R_{th(j-a)}$	°C/W	—	—	80	Lead length = 10 mm	
	$R_{th(j-l)}$				50		

V06

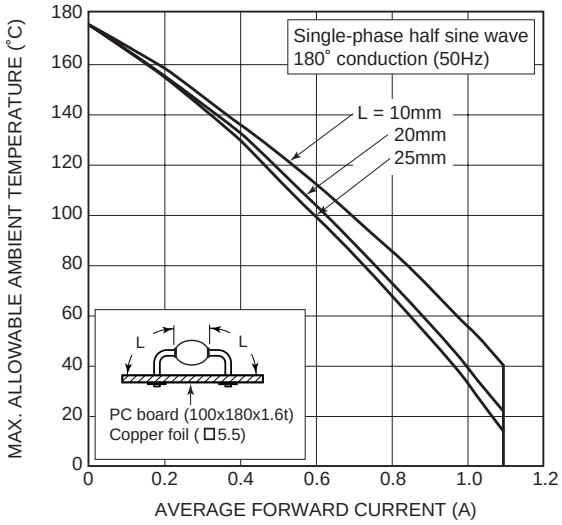
Forward characteristic



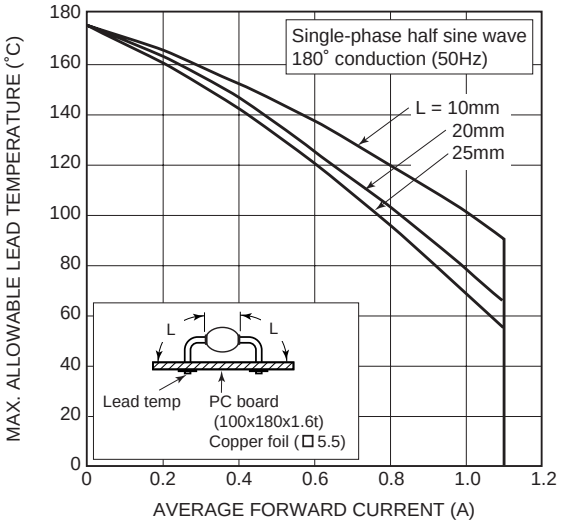
Max. average forward power dissipation
(Resistive or inductive load)



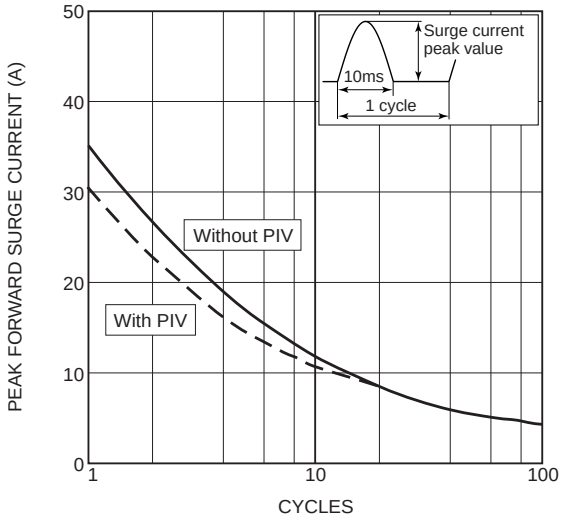
Max. allowable ambient temperature
(Resistive or inductive load)



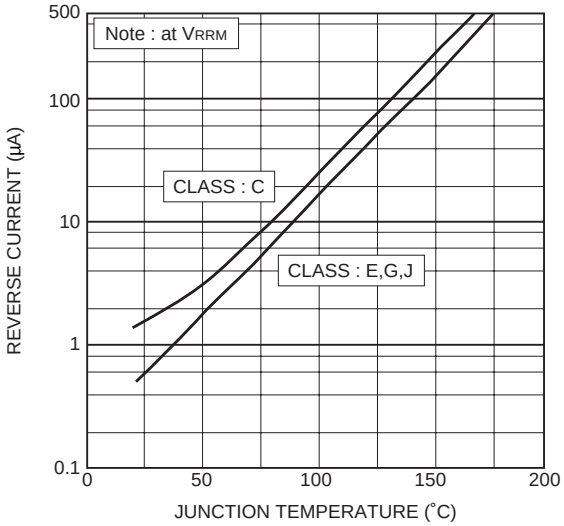
Max. allowable lead temperature
(Resistive or inductive load)



Surge forward current characteristic
(Non-repetitive)

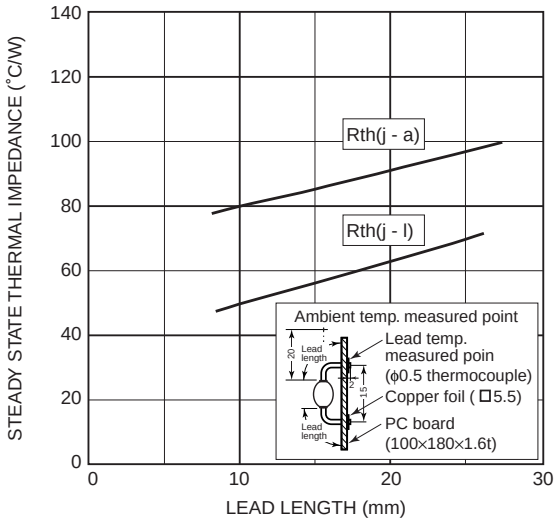


Typ. reverse current vs. junction temperature

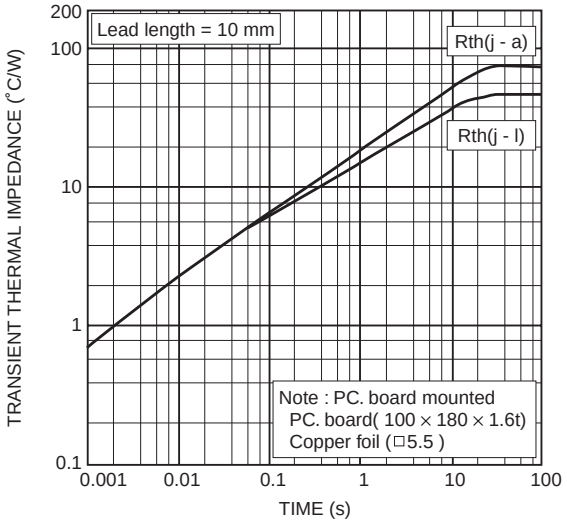


V06

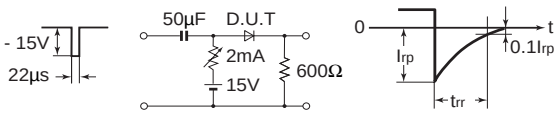
Steady state thermal impedance



Transient thermal impedance



Reverse recovery time(trr) test circuit



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