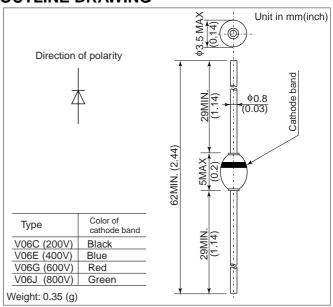
V06

FEATURES

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

OUTLINE DRAWING



ABSOLUTE MAXIMUM RATINGS

Item	Ту	ре	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)}	А	1.1 (Single-phase half sine wave 180° conduction) TL = 90°C, Lead length = 10mm					
Surge(Non-Repetitive) Forward Current	I _{FSM}	А	35 (Without PIV, 10ms conduction, Tj = 175°C start)					
I ² t Limit Value	l²t	A ² s	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..

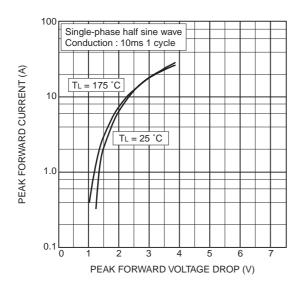
(2) Mechanical Strength: Bending 90°×2 cycles or 180°×1 cycle, Tensile 2kg, Twist 90°×1 cycle.

CHARACTERISTICS(T, =25°C)

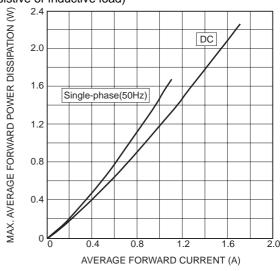
Item	Symbols	Units	Min.	Тур.	Max.	Test Conditions	
Peak Reverse Current	I _{RRM}	μΑ	_	1.5	20	C class	Rated V _{RRM}
				0.6	10	E,G,J class	
Peak Forward Voltage	$V_{\sf FM}$	V	_	_	1.4	I _{FM} =1.1Ap, Single-phase half sine wave 1 cycle	
Reverse Recovery Time	trr	μs	_	3.0	_	I _F =2mA, V _R =-15V	
Steady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

V06

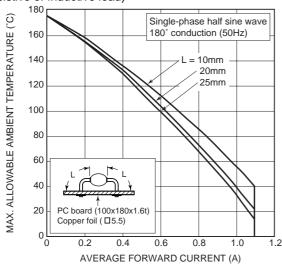
Forward characteristic



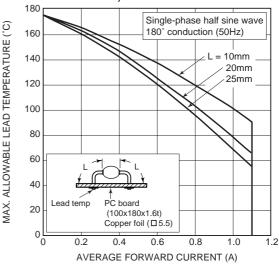
Max. average forward power dissipation (Resistive or inductive load)



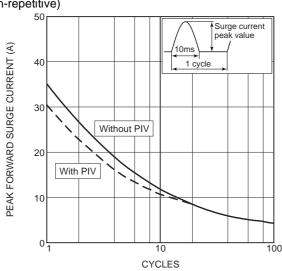
Max. allowable ambient temperature (Resistive or inductive load)



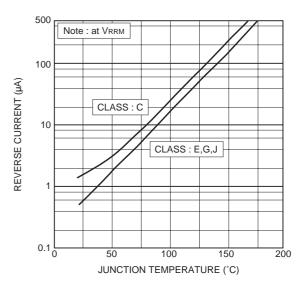
Max. allowable lead temperature (Resistive or inductive load)



Surge forward current characteristic (Non-repetitive)

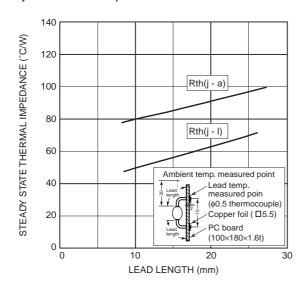


Typ. reverse current vs. junction temperature

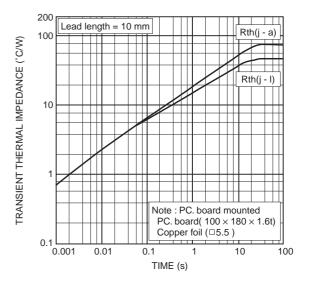


V06

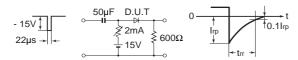
Steady state thermal impedance



Transient thermal impedance



Reverse recovery time(trr) test circuit



HITACHI POWER SEMICONDUCTORS

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