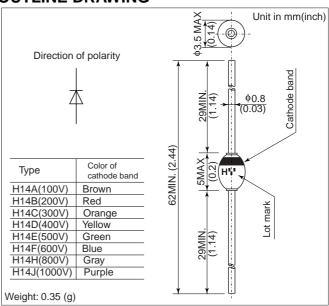
FEATURES

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

OUTLINE DRAWING



ABSOLUTE MAXIMUM RATINGS

ltem	Type		H14A	H14B	H14C	H14D	H14E	H14F	H14H	H14J
Repetitive Peak Reverse Voltage	V_{RRM}	V	100	200	300	400	500	600	800	1000
Non-Repetitive Peak Reverse Voltage	V_{RSM}	V	120	240	360	480	600	720	960	1200
Average Forward Current	I _{F(AV)}	А	1.0 (single-phase half sine wave 180° conduction L=10mm)							
			T _L =115°C					T _L =105°C		
Surge(Non-Repetitive) Forward Current	I _{FSM}	А	45 (Without PIV, 10ms conduction, Tj max start))	
I²t Limit Value	l²t	A²s	8 (Time = 2 ~ 10ms, I = RMS value)							
Operating Junction Temperature	T _j	°C	-40 ~ +175					-40 ~	+165	
Storage Temperature	T_{stg}	°C	-40 ~ +175							

Notes (1) Lead mounting: Lead temperature 300°C max. to 3.2mm from body for 5sec. max..

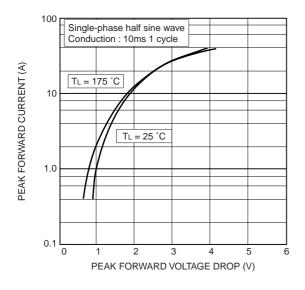
(2) Mechanical strength: Bending 90°×2 cycles or 180°×1 cycle, Tensile 2kg, Twist 90°×1 cycle.

CHARACTERISTICS(T_L=25°C)

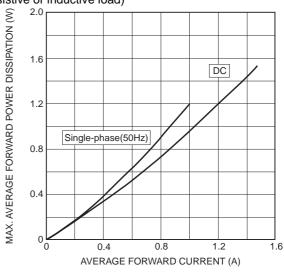
Item	Symbols	Units	Min.	Тур.	Max.	Test Conditions	
Peak Reverse Current	I _{RRM}	μΑ	_	_	5.0	All class Rated V _{RRM}	
Peak Forward Voltage	V_{FM}	V	_	_	1.0	I _{FM} =1.0Ap, Single-phase half sine wave 1 cycle	
Reverse Recovery Time	trr	μs	_	3.0	_	I _F =2mA, V _R =-15V	
Steady State Thermal Impedance	R _{th(j-a)}	°C/W		_	80	Lead length = 10 mm	
	$R_{th(j-l)}$	C/VV			50	Lead length = 10 mm	
Junction Capacitance	Cj	pF	_	50	_	V _R =0V	
			_	8	_	V _R =-50V	

H14

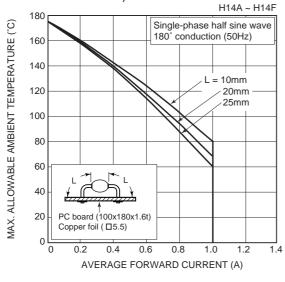
Forward characteristic



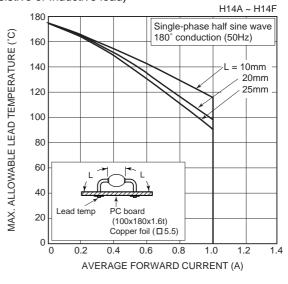
Max. average forward power dissipation (Resistive or inductive load)



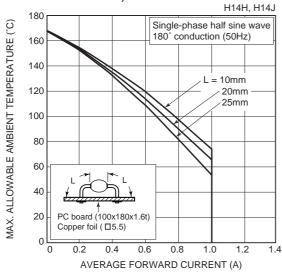
Max. allowable ambient temperature (Resistive or inductive load)



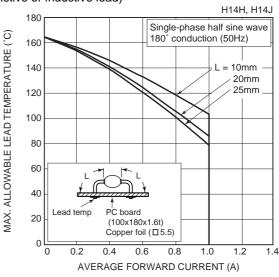
Max. allowable lead temperature (Resistive or inductive load)



Max. allowable ambient temperature (Resistive or inductive load)

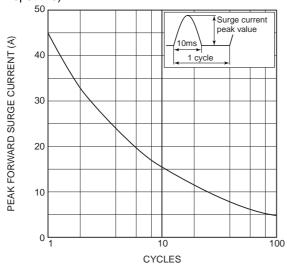


Max. allowable lead temperature (Resistive or inductive load)

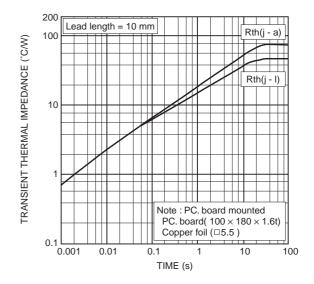


H14

Surge forward current characteristic (Non-repetitive)



Transient thermal impedance



HITACHI POWER SEMICONDUCTORS

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