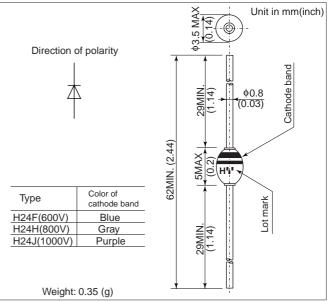


FEATURES

- Transient surge voltage protection.
- Diffused-junction. Glass passivated and encapsulated.

OUTLINE DRAWING



ABSOLUTE MAXIMUM RATINGS

Items	Туре		H24F	H24H	H24J			
Repetitive Peak Reverse Voltage	V_{RRM}	V	600	800	1000			
Peak Reverse Power	P _{RM}	kW	1(Ta = 25° C,Pulse duration 20µs Non-repetitive)					
Average Forward Current	I _{F(AV)}	А	1.0 (Single-phase half sine wave 180° conduction Lead length = 10mm					
Surge(Non-Repetitive) Forward Current	I _{FSM}	А	45(Without PIV, 10ms conduction, Tj max start)					
I ² t Limit Value	l²t	A ² s	8(Time = 2 ~ 10ms, I = RMS value)					
Operating Junction Temperature	Tj	°C	175	16	65			
Storage Temperature	T _{stg}	°C	-65 ~ +175					

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

(2) Mechanical strength : Bending $90^{\circ} \times 2$ cycles or $180^{\circ} \times 1$ cycle, Tensile 2kg, Twist $90^{\circ} \times 1$ cycle.

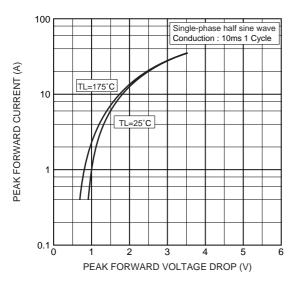
CHARACTERISTICS(T_L=25°C)

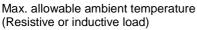
Items	Symbols	Units	Min.	Тур.	Max.	Test Conditions	
Peak Reverse Current	I _{RRM}	μA	-	-	5	All class, Rated V_{RRM}	
Peak Forward Voltage	V_{FM}	V	Ι	Ι	1.0	I_{FM} =1.0Ap, Single-phase half sine wave 1 cycle	
Reverse Recovery Time	trr	μs	-	3.0	_	I _F =2mA, V _R =-15V	
Avalanche Voltage	V _{AVL}	V	750	-	_	I _{RM} =1.0mA, Single-phase half sine	
			1000	1	_	wave 1 pps, Time $\leq 5s$	
			1250	-	_	wave i pps, time 205	
Steady State Thermal Impedance	R _{th(j-a)} R _{th(j-l)}	°C/W	_	_	80	Lead length = 10 mm	
					50		

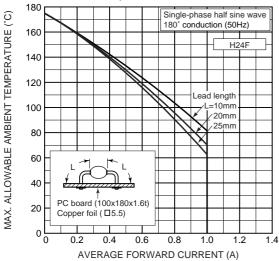


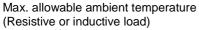
H24

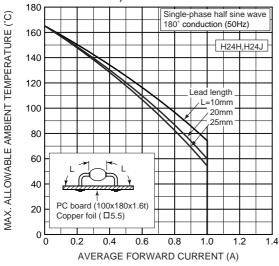
Forward characteristics



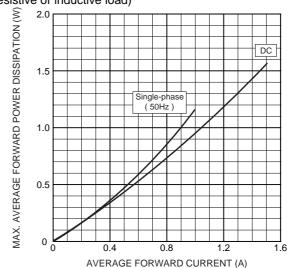




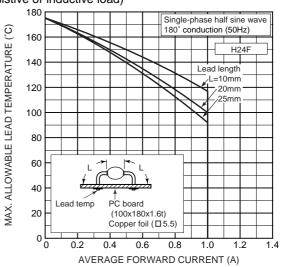




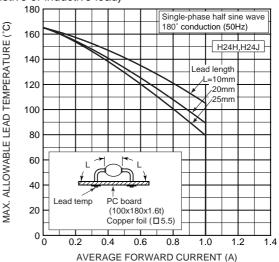
Max. average forward power dissipation (Resistive or inductive load)



Max. allowable lead temperature (Resistive or inductive load)



Max. allowable lead temperature (Resistive or inductive load)

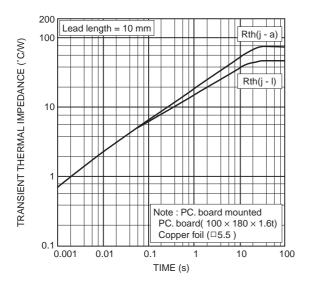


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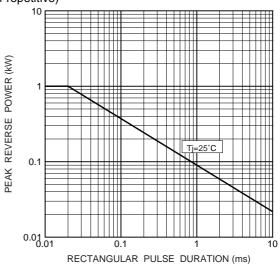
H24

Surge forward current characteristics (Non-repetitive)

Transient thermal impedance



Typical reverse power characteristics (Non-repetitive)



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HITACHI POWER SEMICONDUCTORS

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