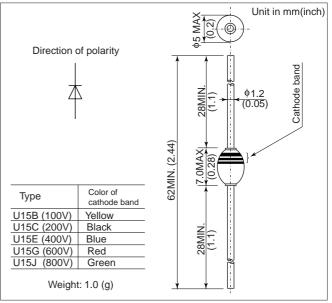


FEATURES

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

OUTLINE DRAWING



ABSOLUTE MAXIMUM RATINGS

Item	Туре		U15B	U15C	U15E	U15G	U15J			
Repetitive Peak Reverse Voltage	V_{RRM}	V	100	200	400	600	800			
Non-Repetitive Peak Reverse Voltage	V _{RSM}	V	200	300	500	800	1000			
Average Forward Current	$I_{F(AV)}$	А	3.0 (Single-phase half sine wave 180° conduction TL = 100°C, Lead length = 10mm							
Surge(Non-Repetitive) Forward Current	I _{FSM}	А		80	60					
			(Without PIV, 10ms conduction, Tj=175°C start)							
l²t Limit Value	l ² t	A²s		25.6	14.4					
			(Time=2~10ms,I=RMS value)							
Operating Junction Temperature	Tj	°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 3kg, Twist 90°×1 cycle.

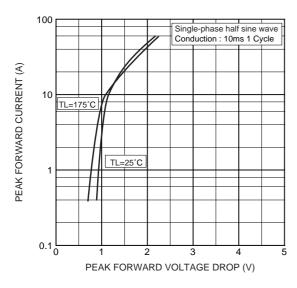
CHARACTERISTICS(T_L=25°C)

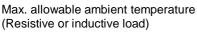
ltem	Symbols	Units	Min.	Тур.	Max.	Test Conditions	
Peak Reverse Current	I _{RRM}	μA	_	1.5	60	B,C class	Rated V _{RRM}
				0.6	10	E,G,J class	Raled V _{RRM}
Peak Forward Voltage	V _{FM}	V	_	_	1.0	I _{FM} =3.0Ap, Single-phase half sine wave 1 cycle	
Reverse Recovery Time	trr	μs	_	3.0	-	$I_F=2mA$, $V_R=-15V$	
Steady State Thermal Impedance	R _{th(j-a)} R _{th(j-l)}	°C/W	_	_	50 20	Lead length = 10 mm	

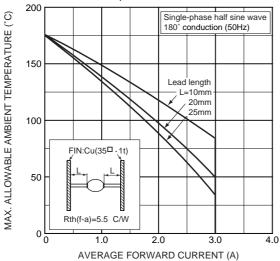


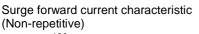
U15

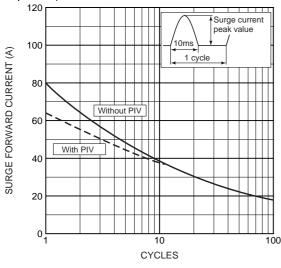
Forward characteristic



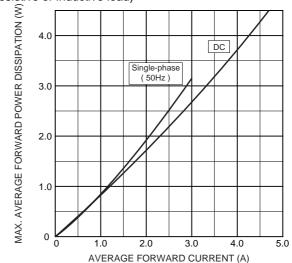




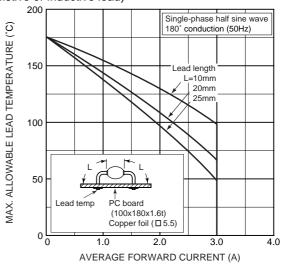




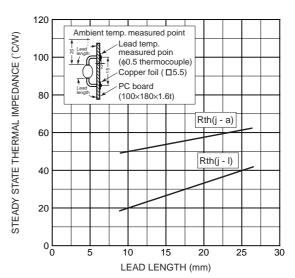
Max. average forward power dissipation (Resistive or inductive load)



Max. allowable lead temperature (Resistive or inductive load)



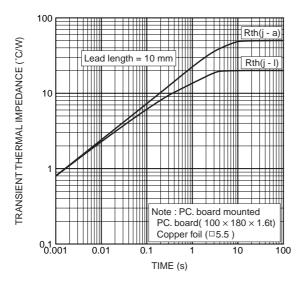
Steady state thermal impedance

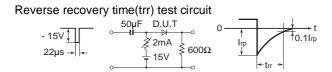


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U15

Transient thermal impedance





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HITACHI POWER SEMICONDUCTORS

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