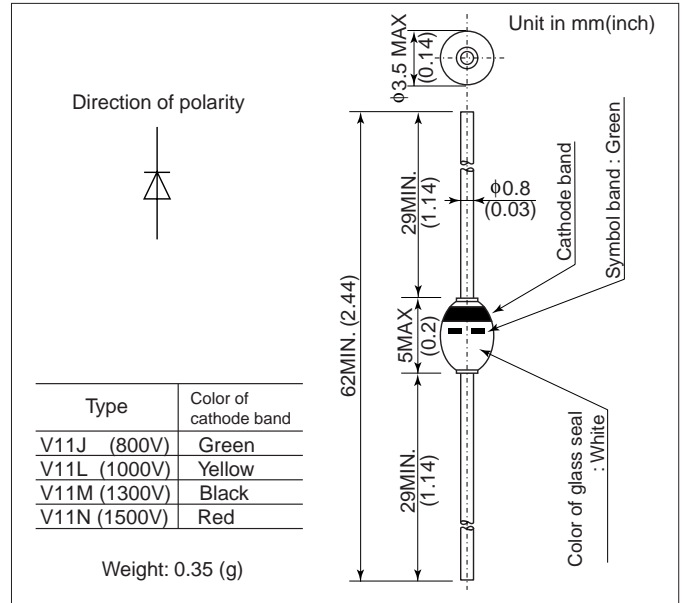


FEATURES

- For high speed switching.
- Diffused-junction. Glass passivated and encapsulated.

OUTLINE DRAWING



ABSOLUTE MAXIMUM RATINGS

Items	Type		V11J	V11L	V11M	V11N
Repetitive Peak Reverse Voltage	V_{RRM}	V	800	1000	1300	1500
Non-Repetitive Peak Reverse Voltage	V_{RSM}	V	1000	1300	1600	1800
Average Forward Current	$I_{F(AV)}$	A	0.4 (Single-phase half sine wave 180° conduction TL = 100°C, Lead length = 10mm)			
Surge(Non-Repetitive) Forward Current	I_{FSM}	A	30 (Without PIV, 10ms conduction, Tj = 150°C start)			
I ² t Limit Value	I ² t	A ² s	3.6 (Time = 2 ~ 10ms, I = RMS value)			
Operating Junction Temperature	T _j	°C	-65 ~ +150			
Storage Temperature	T _{stg}	°C	-65 ~ +200			

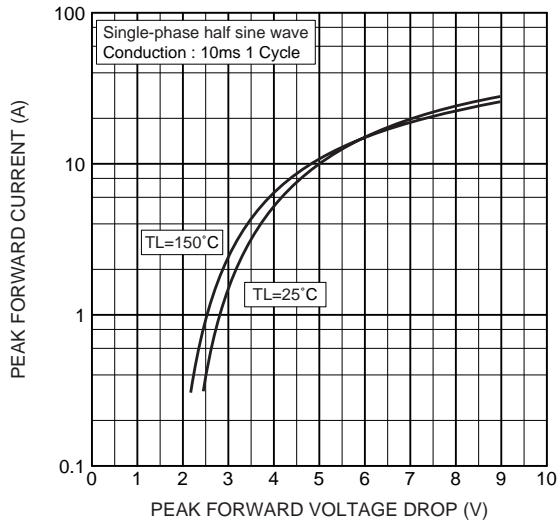
Notes (1) Lead mounting : Lead temperature 300°C max. to 3.2mm from body for 5sec. max..

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

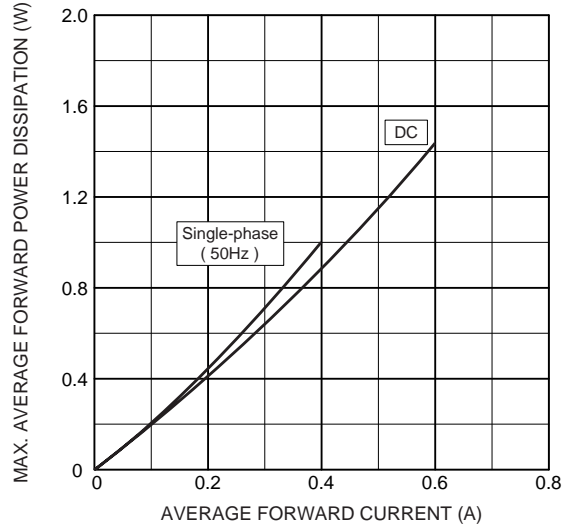
CHARACTERISTICS(T_L=25°C)

Items	Symbols	Units	Min.	Typ.	Max.	Test Conditions
Peak Reverse Current	I _{RRM}	μA	—	2.0	10	Rated V _{RRM}
Peak Forward Voltage	V _{FM}	V	—	—	2.5	I _{FM} =0.4 A _p , Single-phase half sine wave 1 cycle
Reverse Recovery Time	t _{rr}	μs	—	—	0.4	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	

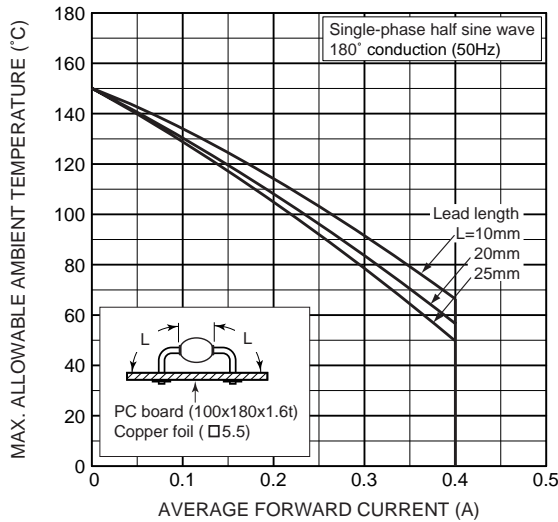
Forward characteristics



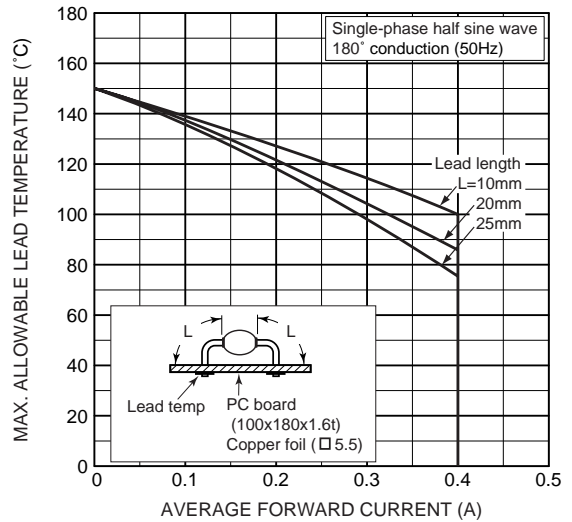
Max. average forward power dissipation (Resistive or inductive load)



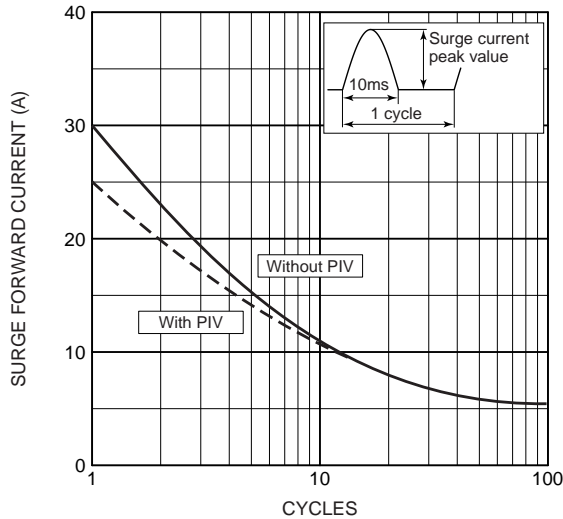
Max. allowable ambient temperature (Resistive or inductive load)



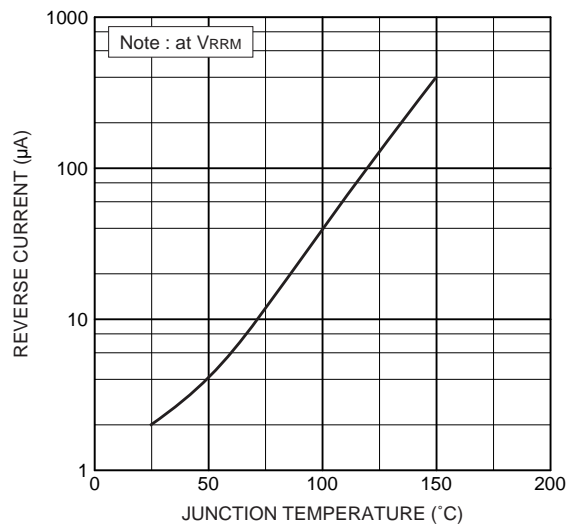
Max. allowable lead temperature (Resistive or inductive load)



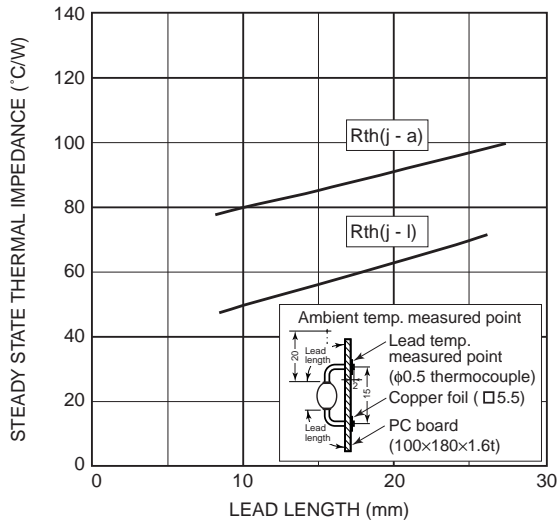
Surge forward current characteristics (Non-repetitive)



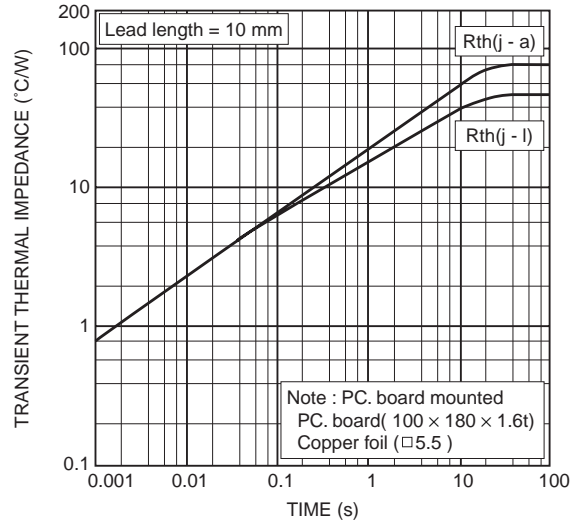
Typ. reverse current vs. junction temperature



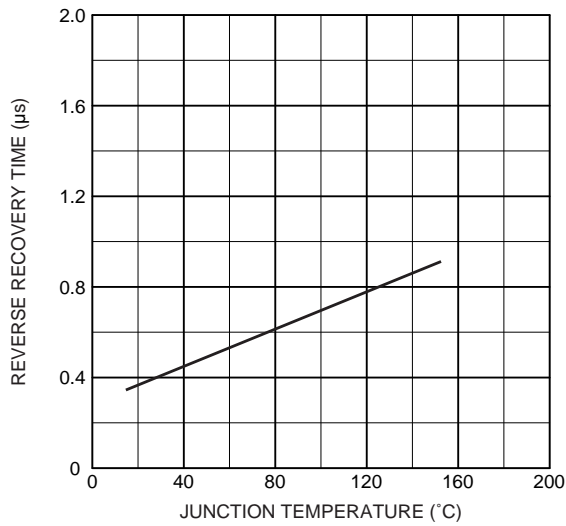
Steady state thermal impedance



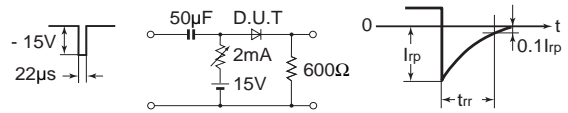
Transient thermal impedance



Typ. reverse recovery time vs. junction temperature



Reverse recovery time(trr) test circuit



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