

PT2L100B

PFC Device Corporation

2A 100V HPTR® Single Schottky Rectifier

Major ratings and characteristics

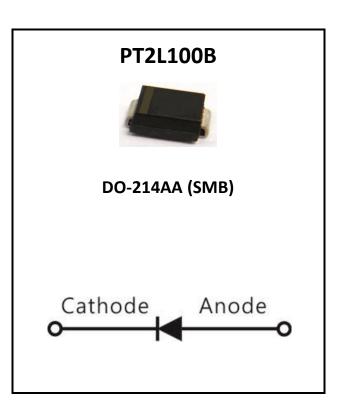
Characteristics	Values	Units	
I _{F(AV)} Rectangular	2	А	
Waveform	Z	A	
V _{RRM}	100	V	
V _F @ 2A , Tj=125 [°] C	0.65	V, typ.	
T _J Operating Junction	40 to 1150	°C	
Temperature	-40 to +150		

Features

- Super Low Forward Voltage (SLVF[®]) Drop
- Reliable High Temperature Operation
- Softest, fast switching capability
- 150°C Operating Junction Temperature
- Lead Free Finish, RoHS Compliant

Typical Applications

Device optimized for low forward voltage drop to maximize efficiency in Power Supply applications



1. Characteristics

Parameter	Symbol	Values	Units	
DC Blocking Voltage	V _{RM}			
Working Peak Reverse Voltage	V _{RWM}	100	Volts	
Peak Repetitive Reverse Voltage	V _{RRM}	V _{RRM}		
Average Rectified Forward Current				
Per device	Ι _ο	2	Amps	
(Rated VR-20Khz Square Wave) - 50% duty cycle				
Peak Forward Surge Current - 1/2 60hz	I _{FSM}	40	Amps	
Peak Repetitive Reverse Surge Current (2uS-1Khz)	I _{RRM}	2	Amps	
Typical Thermal Resistance	RθJL	20	°C / W	
Maximum Rate of Voltage Change (at Rated VR)	dv/dt	10000	V/uS	
Operating Junction Temperature	nction Temperature T _J - 45 to +150		°C	
Storage Junction Temperature	T _{STG}	- 45 to +150	-	

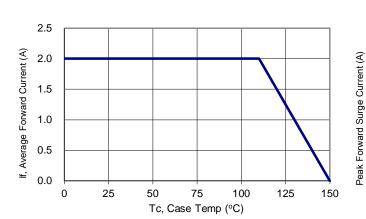
Electrical Characteristics -	(per leg)	($T_A = 25$ °C unless otherwise specified)
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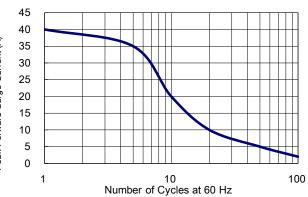
Parameter	Test Conditions		Symbol	Тур.	Max.	Units
Instantaneous	15 - 2 4	T _J = 25 ^o C	\/ 厂 *		079	Volta
Forward Voltage	IF = 2 A	T _J = 125 °C	VF*	0.65	0.69	Volts
Instantaneous		T _J = 25 °C	IR*		100	uA
Reverse Current	At V _{RM}	T _J = 100 °C		2	10	mA
* Pulse width < 300 uS, Duty cycle < 2%						



2. Characteristics Curves

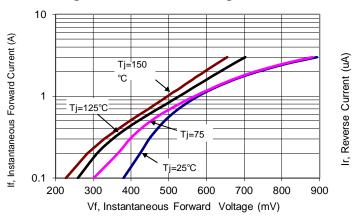
Ratings and Characteristics Curves





(TA = 25° C unless otherwise specified)







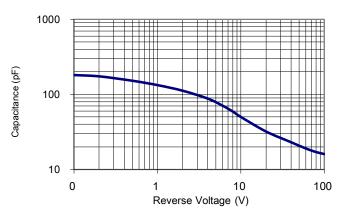


Figure 5: Typical Junction Capacitance



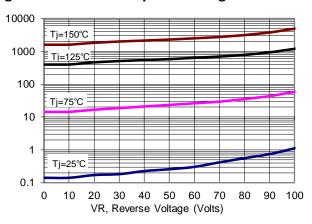


Figure 4: Typical Reverse Current



3. Marking information

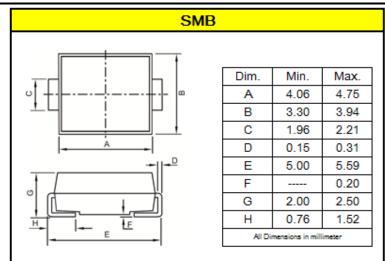
Top Marking Rule



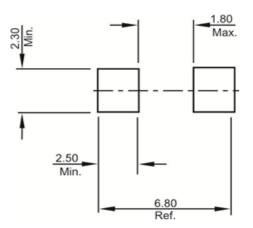
- T2L100B= Product Type Marking Code
- A = Assembly code
- Y = Last one digits of year
- M = Month code
- S = Series Number
- H = Halogen Free (N/A = common molding compound)

4. Package information

Suggested Package Outline Dimensions millimeters



Mounting pad Outline Dimensions millimeters

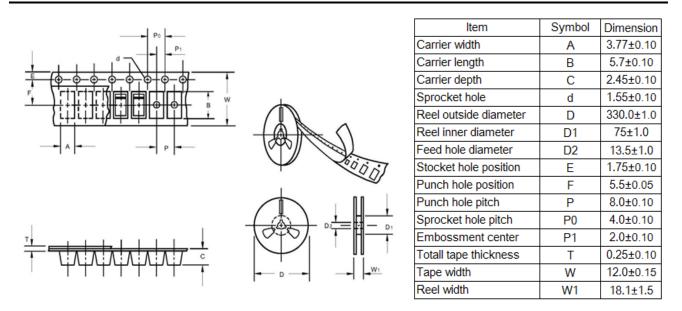




Version 4.3

5. Packing and Ordering information

Packing information millimeters



Ordering information

Part Number	Package	Base Quantity	Delivery mode
PT2L100B	DO-214AA (SMB)	3000	13" diameter plastic tape and reel

Note: For Halogen Free molding compound, add "H" suffix to part number above.

Mechanical

- Molder Plastic: UL Flammability Classification Rating 94V-0
- Device Weight : 0.003 ounces (0.093grams) DO-214AA(SMB)

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