

PT3L80F-A

PFC Device Corporation

3A 80V HPTR[™] Single Schottky Rectifier

Major ratings and characteristics

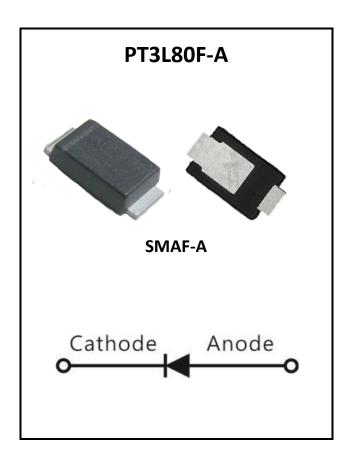
Characteristics	Values	Units	
I _{F(AV)} Rectangular	3	A	
Waveform	2		
V _{RRM}	80	V	
V _F @ 3A <i>,</i> Tj=125 [°] C	0.58	V, typ.	
T _J Operating Junction	40 to 1150	°C	
Temperature	-40 to +150		

Features

- Reliable High Temperature Operation
- Softest, fast switching capability
- 150°C Operating Junction Temperature
- Lead Free Finish, RoHS Compliant
- Green Molding Compound (No Br, Sb)

Typical Applications

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



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1. Characteristics

Maximum Ratings Characteristics	$(T_A = 25 °C unless otherwise specified)$
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Parameter	Symbol	Values	Units
DC Blocking Voltage	V _{RM}		
Working Peak Reverse Voltage	V _{RWM}	80	Volts
Peak Repetitive Reverse Voltage	V _{RRM}		
Average Rectified Forward Current			
Per device	lo	3	Amps
(Rated VR-20Khz Square Wave) - 50% duty cycle			
Peak Forward Surge Current - 1/2 60hz	I _{FSM}	50	Amps
Peak Repetitive Reverse Surge Current (2uS-1Khz)	I _{RRM}	1	Amps
Typical Thermal Resistance Note (1)	Rθ _{JL}	25	°C / W
Maximum Rate of Voltage Change (at Rated VR)	dv/dt	10000	V/uS
Operating Junction Temperature	TJ	- 40 to +150	°c
Storage Junction Temperature	Т _{stg}	- 40 to +150 °C	

Electrical Characteristics -	(per leg)	($T_A = 25$ °C unless otherwise specified)
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Parameter	Test Conditions		Symbol	Тур.	Max.	Units
Instantaneous		T _J = 25 ^o C	\/ 厂 *		0.67) (alta
Forward Voltage	IF = 3 A	T _J = 125 °C	VF*	0.58	0.62	Volts
Instantaneous		T _J = 25 ^o C	10*		200	uA
Reverse Current	At V _{RM}	T _J = 125 °C	IR*	5	30	mA

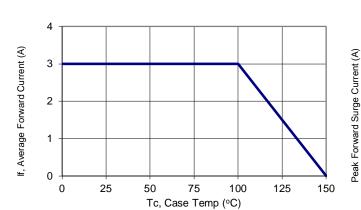
* Pulse width < 300 uS, Duty cycle < 2%

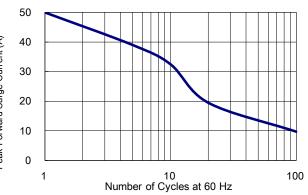
Note 1. FR-4 PCB, 2 oz Copper. Minimum recommended pad layout



2. Characteristics Curves

Ratings and Characteristics Curves





(TA = 25° C unless otherwise specified)



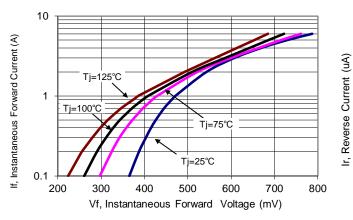


Figure 3: Typical Forward Voltage

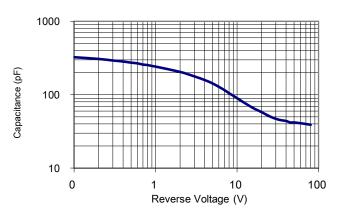


Figure 5: Typical Junction Capacitance



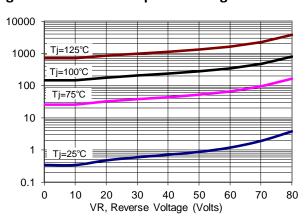
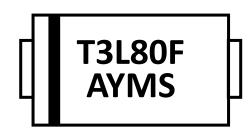


Figure 4: Typical Reverse Current



Marking information

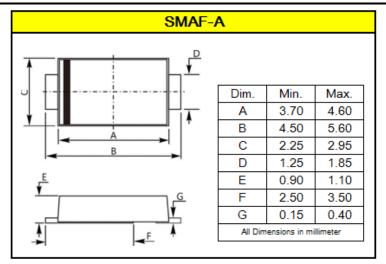
Top Marking Rule



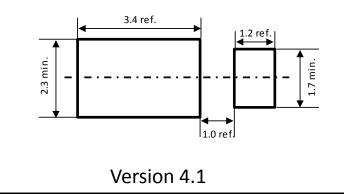
T3L80F = Product Type Marking Code A = Assembly Code YM = Date Code Y = Last one digits of year M = Month code S = Series Number

3. Package information

Suggested Package Outline Dimensions millimeters



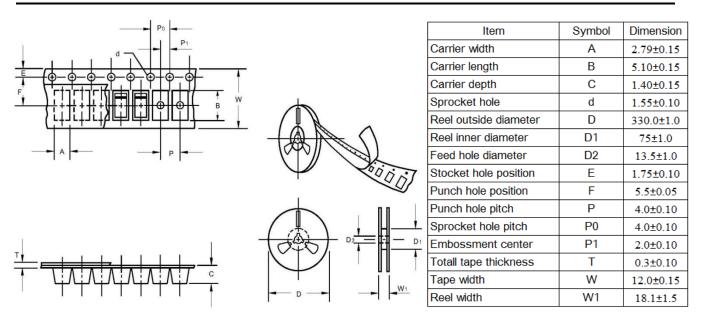
Mounting pad Outline Dimensions millimeters





4. Packing and Ordering information

Packing information millimeters



Ordering information

Part Number	Package	Base Quantity	Delivery mode
PT3L80F-A	Flat SMA with heat sink	10000	13" diameter plastic tape and reel

Mechanical

- Case: SMAF-A (Flat SMA with heat sink)
- Molder Plastic: UL Flammability Classification Rating 94V-0
- Device Weight : 0.0012 ounces (0.033grams) SMAF-A

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