

TSA15P80 VOLTAGE RANGE 80 Volts CURRENT 15 Ampere

ROHS

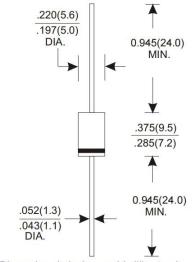
Features

- Fast switching speed
- Low forward voltage
- · Low power high efficiency
- High surge capability
- High temperature soldering guaranteed
 250 ℃/10 seconds,0.373"(9.5mm)lead length



Mechanical Data

- Case: Transfer molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead :Solder plated, solderable per MIL-STD-750 method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.04ounce, 1.10 gram



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

- Ratings at 25 [°]C ambient temperature unless otherwise specified
- Single phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

TYPE NUMBER			SYMBOLS	TSA15P80		UNIT
Maximum Repetitive Peak Reverse Voltage			V_{RRM}	8	0	Volts
Maximum RMS Voltage			V _{RMS}	6	5	Volts
Maximum DC Blocking Voltage			V_{DC}	8	0	Volts
Maximum Average Forward Rectified Current at T_L see figure 1 T_L =85 $^{\circ}$ C			I _(AV)	1	5	Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)			I _{FSM}	180		Amps
Maximum Instantaneous Forward Voltage @ 15A (Note1)	Туре			Тур.	Max.	
	I _F =2A	T _J =25°C	V _F	0.41	0.48	Volts
		T _J =125°C		0.33		
	I _F =15A	T _J =25°C			0.70	
		T _J =125°C			0.62	
Maximum DC Reverse Current at rated DC T _A = 2		T _A = 25℃		0.1		mA
Blocking Voltage per element	T _A = 100 °C		I _R	0.5		111/4
Typical thermal resistance per diode(Mounted on FR-4 PCB) (Note 2)			R _{θJA}	22		°C/W
Diode junction capacitance (Note 3)			Сл	27	70	pF
Operating Junction Temperature			TJ	(-55 to	+125)	$^{\circ}\!\mathbb{C}$
Storage Temperature Range			T _{STG}	(-55 to	+125)	$^{\circ}\mathbb{C}$

Notes:

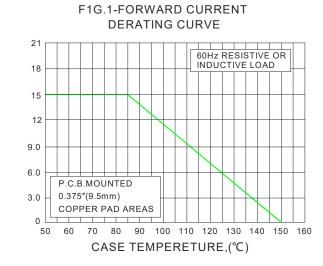
- 1. Pulse test:300µs pulse width,1% duty cycle.
- 2. Thermal Resistance from junction to Ambient at .375"(9.5mm)lead length, P.C.board mounted.
- 3. f=1MHz and applied 4V DC reverse voltage.



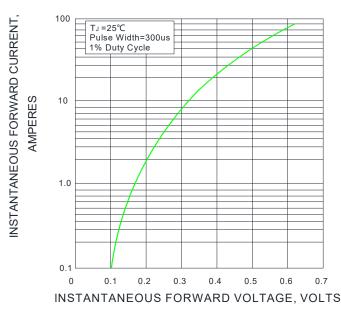
FORWARD CURRENT AMPERES

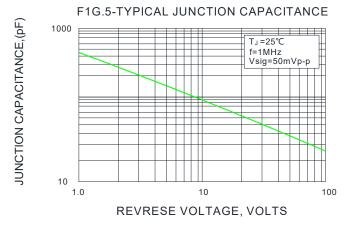
VOLTAGE RANGE 80 Volts **TSA15P80 CURRENT** 15 Ampere

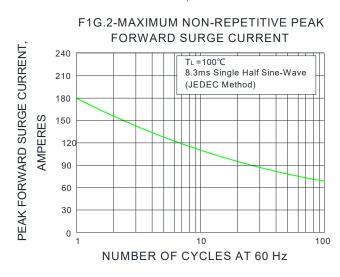
Ratings and Characteristic Curves (T_A=25℃ unless otherwise noted)



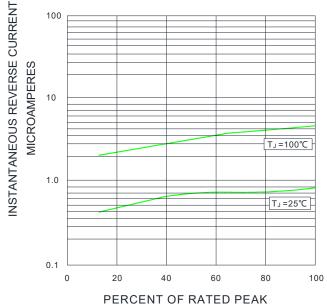










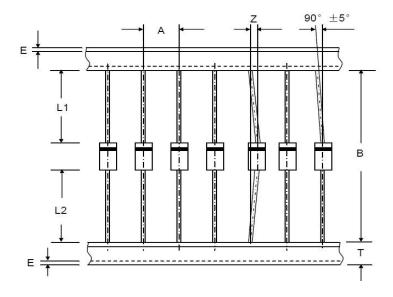


REVERSE VOLTAGE,(%)



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Axial Lead Taping Specifications for Rectifiers



	Component Pitch A	Inner Tape Pitch B	Cumulative Tolerance	
Component Outline	±0.5mm	+0.5mm -0.4mm		
DO-201AD(DO-27)	10.0mm	52.4mm	2.0mm/20pitch	

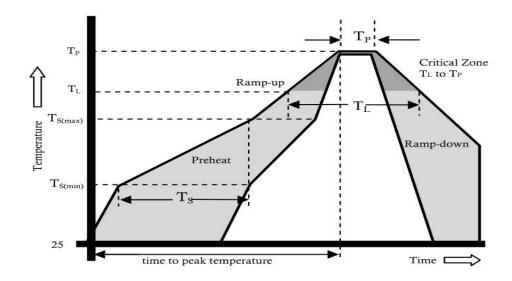
Item	Symbol	Specifications(mm)	Specifications(inch)
Component alignment	Z	1.2 max	0.048 max
Tape width	Т	6.0±0.4	0.236±0.016
Exposed adhesive	Е	0.8 max	0.032 max
Body eccentricity	IL1-L2I	1.0 max	0.040 max



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AGE RANGE 80 Volts
ENT 15 Ampere

Reflow Profile



Reflow Condition		Pb-Free Assembly	
	Temperature Min.	+150°C	
Pre Heat	Temperature Max.	+200°C	
	Time(Min to Max)	60-180 secs.	
Average ramp up rate(Liquidus Temp(T _L) to peak)		3°C/sec. Max.	
T _S (max) to T _L - Ramp-up Rate		3°C/sec. Max.	
Reflow	Temperature (T _L)(Liquidus)	+217°C	
	Temperature (T _L)	60-150 secs.	
Peak Temp (T _P)		+(260+0/-5)°C	
Time within 5°C of actual Peak Temp (T _P)		25 secs.	
Ramp-down Rate		6°C/sec. Max.	
Time 25°C to peak Temp (T _P)		8 min. Max.	
Do not exceed		+260°C	



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