



**TAYCHIPST**

GLASS PASSIVATED JUNCTION RECTIFIER

GPP20A THRU GPP20M

50V-1000V 2.0A

## FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated junction
- Capable of meeting environmental standards of MIL-S-19500
- 2.0 Ampere operation at  $T_A=55^\circ\text{C}$  with no thermal runaway
- Typical  $IR$  less than  $0.1\mu\text{A}$

## MECHANICAL DATA

**Case:** JEDEC DO-204AC, molded plastic over glass passivated chip

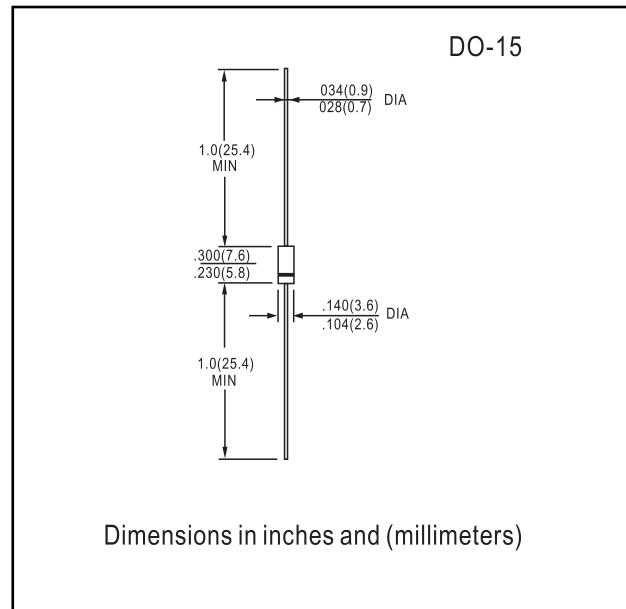
**Terminals:** Plated axial leads, solderable per MIL-STD-750, Method 2026

High temperature soldering guaranteed:  $250^\circ\text{C}/10$  seconds,  $0.375"$  (9.5mm) lead length, 5 lbs. (2.3kg) tension

**Polarity:** Color band denotes cathode end

**Mounting Position:** Any

**Weight:** 0.015 oz., 0.4 g



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

### Maximum Ratings & Thermal Characteristics

Ratings at  $25^\circ\text{C}$  ambient temperature unless otherwise specified.

Parameter	Symbol	GPP 20A	GPP 20B	GPP 20D	GPP 20G	GPP 20J	GPP 20K	GPP 20M	Unit
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum average forward rectified current $0.375"$ (9.5mm) lead length at $T_A=55^\circ\text{C}$	$I_{F(AV)}$	2.0						A	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	70						A	
Typical thermal resistance <sup>(1)</sup>	$R_{\theta JA}$ $R_{\theta JL}$	25 20						°C/W	
Operating junction and storage temperature range	$T_J, T_{STG}$	−55 to +150						°C	

### Electrical Characteristics

Ratings at  $25^\circ\text{C}$  ambient temperature unless otherwise specified.

Parameter	Symbol	GPP 20A	GPP 20B	GPP 20D	GPP 20G	GPP 20J	GPP 20K	GPP 20M	Unit
Maximum instantaneous forward voltage at 2.0A	$V_F$	1.1						V	
Maximum reverse current $T_A = 25^\circ\text{C}$ at rated DC blocking voltage $T_A = 100^\circ\text{C}$	$I_R$	5.0 50						μA	
Maximum junction capacitance at 4.0V, 1MHz	$C_J$	25						pF	

Note: (1) Thermal resistance from junction to ambient and from junction to lead at  $0.375"$  (9.5mm) lead length, P.C.B. mounted





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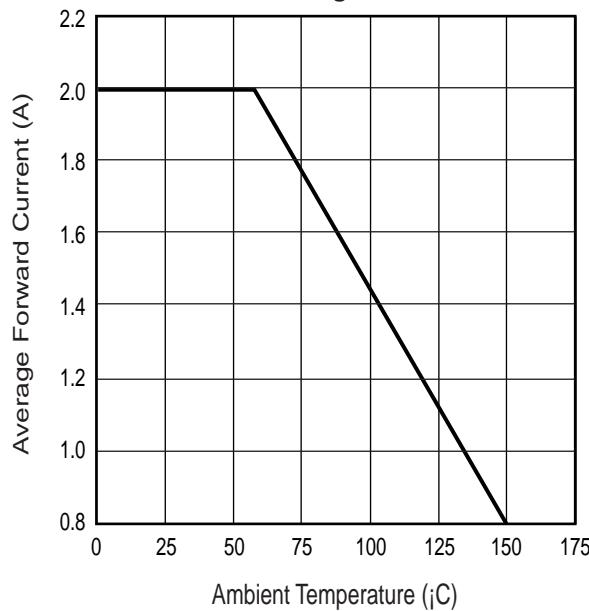
50V-1000V 2.0A

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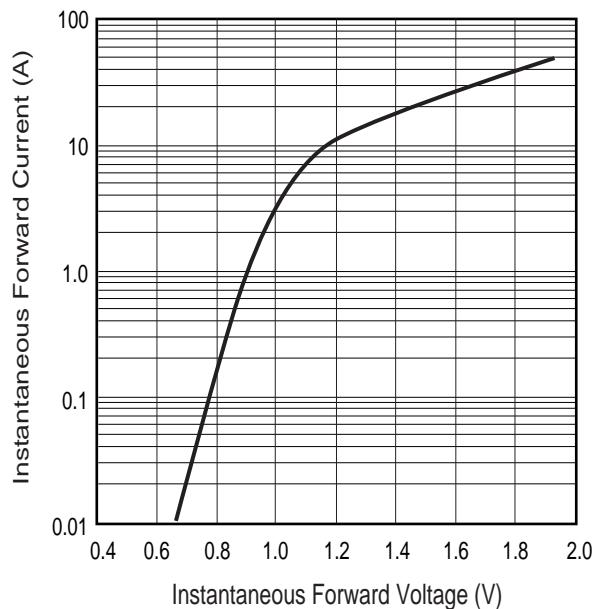
**RATINGS AND CHARACTERISTIC CURVES      GPP20A THRU GPP20M**

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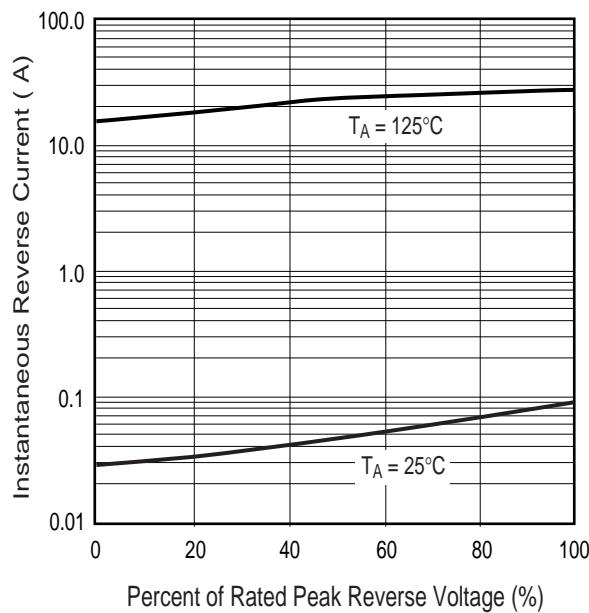
**Fig. 1 – Forward Current Derating Curve**



**Fig. 2 – Typical Instantaneous Forward Characteristics**



**Fig. 3 – Typical Reverse Characteristics**



**Fig. 4 – Typical Junction Capacitance**

