

GPP10A, GPP10B, GPP10D, GPP10G, GPP10J, GPP10K, GPP10M

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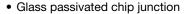
RoHS

Glass Passivated Junction Plastic Rectifier

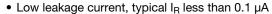


PRIMARY CHARACTERISTICS							
I _{F(AV)}	1.0 A						
V _{RRM}	50 V, 100 V, 200 V, 400 V, 600 V, 800 V, 1000 V						
I _{FSM}	30 A						
I _R	5.0 μΑ						
V _F at I _F = 1.0 A	1.1 V						
T _J max.	150 °C						
Package	DO-41 (DO-204AL)						
Circuit configuration	Single						

FEATURES







• High forward surge capability

• Meets environmental standard MIL-S-19500

• Solder dip 275 °C max. 10 s, per JESD 22-B106

 Material categorization: for definitions of compliance please see www.vishav.com/doc?99912

TYPICAL APPLICATIONS

For use in general purpose rectification of power supplies, inverters, converters and freewheeling diodes application.

MECHANICAL DATA

Case: DO-41 (DO-204AL), molded epoxy over passivated chip

Molding compound meets UL 94 V-0 flammability rating

Base P/N-E3 - RoHS-compliant, commercial grade

Terminals: matte tin plated leads, solderable per J-STD-002 and JESD 22-B102

E3 suffix meets JESD 201 class 1A whisker test

Polarity: color band denotes cathode end

MAXIMUM RATINGS (T _A = 25 °C unless otherwise noted)									
PARAMETER	SYMBOL	GPP10A	GPP10B	GPP10D	GPP10G	GPP10J	GPP10K	GPP10M	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" (9.5 mm) lead length at T _A = 75 °C	I _{F(AV)}	1.0							А
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	30							Α
Maximum full load reverse current, full cycle average 0.375" (9.5 mm) lead length T _A = 75 °C	I _{R(AV)}	30							μΑ
Operating junction and storage temperature range	T _J , T _{STG}	-55 to +150							°C



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ELECTRICAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)																			
PARAMETER	TEST CONDITIONS		SYMBOL	MBOL GPP10A GPP10B GPP10D GPP10G GPP10J GPP10K G					GPP10M	UNIT									
Maximum instantaneous forward voltage	1.0 A		V _F	1.1					1.1		1.1		1.1		1.1		1.1		٧
Maximum DC reverse current		T _A = 25 °C		5.0															
at rated DC blocking voltage		T _A = 100 °C	l _R	50						μA									
Maximum junction capacitance	4.0 V,	1 MHz	CJ	6					pF										

THERMAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)									
PARAMETER	SYMBOL GPP10A GPP10B GPP10D GPP10G GPP10J GPP10K GPP10M UNIT								
Typical thermal resistance	R _{0JA} (1)	50							°C/W
Typical trieffilal resistance	R _{0JL} (1)	25				C/ VV			

Note

⁽¹⁾ Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length, PCB mounted

ORDERING INFORMATION (Example)										
PREFERRED P/N	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE						
GPP10J-E3/54	0.34	54	5500	13" diameter paper tape and reel						
GPP10J-E3/73	0.34	73	3000	Ammo pack packaging						

RATINGS AND CHARACTERISTICS CURVES ($T_A = 25$ °C unless otherwise noted)

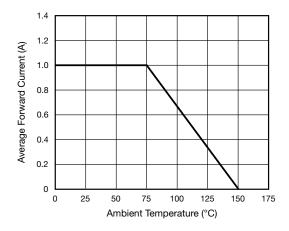


Fig. 1 - Forward Current Derating Curve

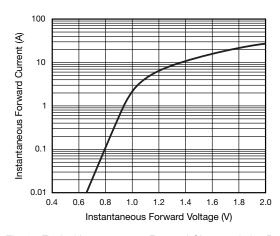
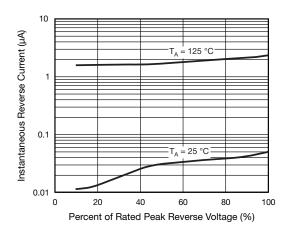


Fig. 2 - Typical Instantaneous Forward Characteristics Per Diode

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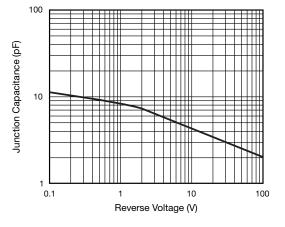
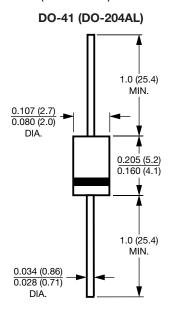


Fig. 3 - Typical Reverse Characteristics

Fig. 4 - Typical Junction Capacitance

PACKAGE OUTLINE DIMENSIONS in inches (millimeters)





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