ROHS



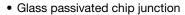
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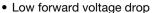
Glass Passivated Junction Rectifier

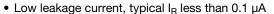


PRIMARY CHARACTERISTICS							
I _{F(AV)} 2.0 A							
V_{RRM}	50 V to 1000 V						
I _{FSM}	70 A						
I _R	5.0 μΑ						
V _F	1.1 V						
T _J max.	150 °C						

FEATURES







· High forward surge capability

• Meets environmental standard MIL-S-19500

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

 Compliant to RoHS directive 2002/95/EC and in accordance to WEEE 2002/96/EC



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

MECHANICAL DATA

Case: DO-204AC, 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	GPP20A	GPP20B	GPP20D	GPP20G	GPP20J	GPP20K	GPP20M	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 $T_A = 55\ ^{\circ}C$	I _{F(AV)}		2.0						
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	70						А	
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	GPP20A	GPP20B	GPP20D	GPP20G	GPP20J	GPP20K	GPP20M	UNIT
Maximum instantaneous forward voltage	2.0 A		V _F				1.1				٧
Maximum reverse current at rated DC		T _A = 25 °C	I-	5.0							
blocking voltage		T _A = 100 °C	I _R	50						μA	
Maximum junction capacitance	4.0 V,	1 MHz	CJ				12				pF

THERMAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)									
PARAMETER	SYMBOL GPP20A GPP20B GPP20D GPP20G GPP20J GPP20K GPP20M UNIT							UNIT	
Typical thormal registance	R _{0JA} (1)	25							°C/W
Typical thermal resistance	R ₀ JL (1)	20					C/VV		

Note

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

ORDERING INFORMATION (Example)									
PREFERRED P/N	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE					
GPP20J-E3/54	0.417	54	4000	13" diameter paper tape and reel					
GPP20J-E3/73	0.417	73	2000	Ammo pack packaging					

RATINGS AND CHARACTERISTICS CURVES

(T_A = 25 °C unless otherwise noted)

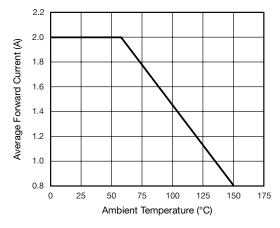


Fig. 1 - Forward Current Derating Curve

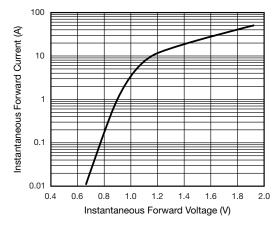


Fig. 2 - Typical Instantaneous Forward Characteristics



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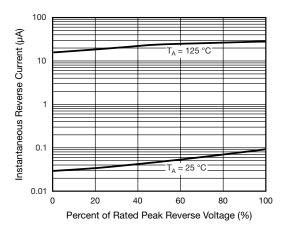


Fig. 3 - Typical Reverse Characteristics

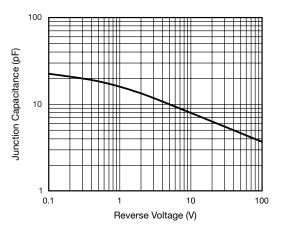
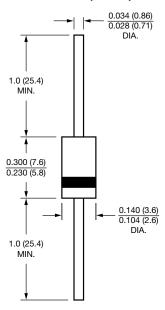


Fig. 4 - Typical Junction Capacitance

PACKAGE OUTLINE DIMENSIONS in inches (millimeters)

DO-204AC (DO-15)







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