imall

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10A, 50V - 1000V Glass Passivated Rectifiers

FEATURES

- Glass passivated chip junction
- High efficiency, Low VF
- High current capability
- High surge current capability
- Low power loss
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21

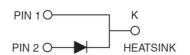
MECHANICAL DATA

Case: TO-263AB (D²PAK)

Molding compound, UL flammability classification rating 94V-0 Moisture sensitivity level: level 1, per J-STD-020 Packing code with suffix "G" means green compound (halogen-free) **Terminal:** Matte tin plated leads, solderable per JESD22-B102 Meet JESD 201 class 1A whisker test **Polarity:** As marked **Weight:** 1.7 g (approximately)



TO-263AB (D²PAK)







DADAMETER		GPAS	GPAS	GPAS	GPAS	GPAS	GPAS	GPAS	UNIT
PARAMETER	SYMBOL	1001	1002	1003	1004	1005	1006	1007	
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	I _{F(AV)}	10					А		
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	150			А				
Maximum instantaneous forward voltage (Note 1) I_F = 10 A	V _F	1.1			V				
Maximum reverse current @ rated V_R T _J =25°C T _J =125°C	I _R	5 100			μA				
Typical junction capacitance (Note 3)	CJ	50					pF		
Typical thermal resistance	R _{eJC}	4					°C/W		
Operating junction temperature range	TJ	- 55 to +150					°C		
Storage temperature range	T _{STG}	- 55 to +150					°C		

Note 1: Pulse test with PW=300µs, 1% duty cycle

Note 2: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.



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ORDERING INFORMATION PACKING CODE PART NO. PACKING CODE PACKAGE PACKING SUFFIX (*) RN 800 / 13" Paper reel GPAS100x D²PAK G (Note 1) ΜN 800 / 13" Plastic reel D²PAK

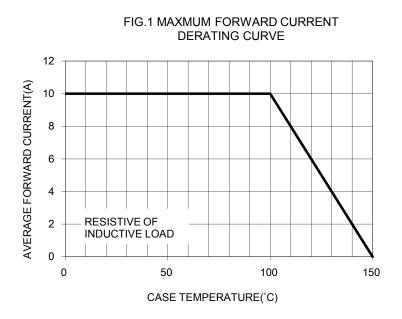
Note 1: "x" defines voltage from 50V (GPAS1001) to 1000V (GPAS1007)

*: Optional available

EXAMPLE						
PREFERRED PART NO.	PART NO.	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION		
GPAS1007 RNG	GPAS1007	RN	G	Green compound		

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)





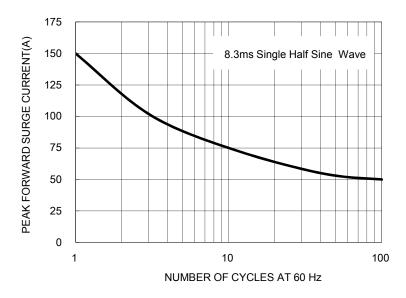


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

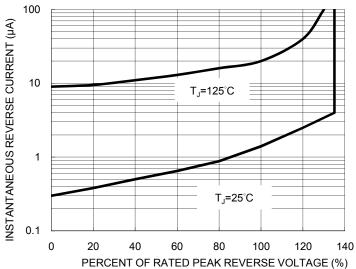
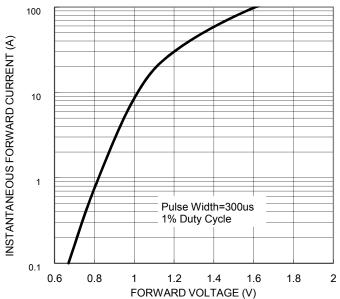
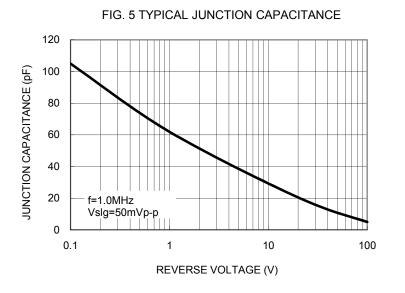


FIG. 4 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

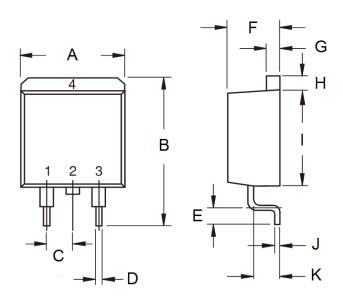




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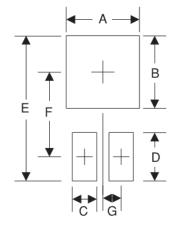


PACKAGE OUTLINE DIMENSIONS TO-263AB (D²PAK)



DIM.	Unit	(mm)	Unit (inch)		
	Min	Max	Min	Max	
А	-	10.5	-	0.413	
В	14.60	15.88	0.575	0.625	
С	2.41	2.67	0.095	0.105	
D	0.68	0.94	0.027	0.037	
E	2.29	2.79	0.090	0.110	
F	4.44	4.70	0.175	0.185	
G	1.14	1.40	0.045	0.055	
Н	1.14	1.40	0.045	0.055	
I	8.25	9.25	0.325	0.364	
J	0.36	0.53	0.014	0.021	
К	2.03	2.79	0.080	0.110	

SUGGESTED PAD LAYOUT



P/N

YWW

G

F

Symbol	Unit (mm)	Unit (inch)
А	10.8	0.425
В	8.3	0.327
С	1.1	0.043
D	3.5	0.138
E	16.9	0.665
F	9.5	0.374
G	2.5	0.098

MARKING DIAGRAM



= Specific Device Code

= Green Compound

= Date Code

= Factory Code



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