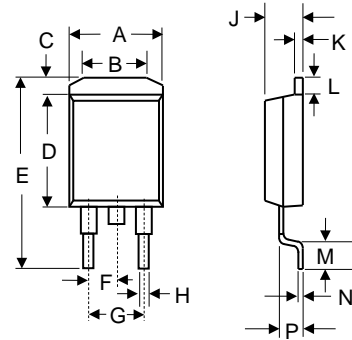


Features

- * Glass passivated chip junction
- * High efficiency, Low VF
- * High current capability
- * High surge current capability
- * Low power loss



RoHS
COMPLIANT



Mechanical Data

- * Case: TO-263AB (D₂PAK)
- * Molding compound, UL flammability classification rating 94V-0
Moisture sensitivity level: level 1, per J-STD-020
- * Terminal: Matte tin plated leads, solderable per JESD22-B102
Meet JESD 201 class 1A whisker test
- * Polarity: As marked

DIM.	D ² -PAK(TO-263AB)			
	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.380	0.411	9.65	10.45
B	0.245	---	6.22	---
C	0.045	0.055	1.14	1.40
D	0.320	0.360	8.13	9.14
E	0.591	0.624	15.00	15.85
F	0.095	0.105	2.41	2.67
G	0.195	0.205	4.95	5.20
H	0.027	0.037	0.686	0.940
J	0.160	0.190	4.06	4.83
K	0.045	0.055	1.14	1.40
L	0.047	0.055	1.19	1.40
M	0.090	0.110	2.29	2.79
N	0.014	0.021	0.36	0.53
P	0.110	0.140	2.79	3.56

Maximum Ratings and Electrical Characteristics (T_A=25°C unless otherwise noted)

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

Ratings and Characteristic Curves

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

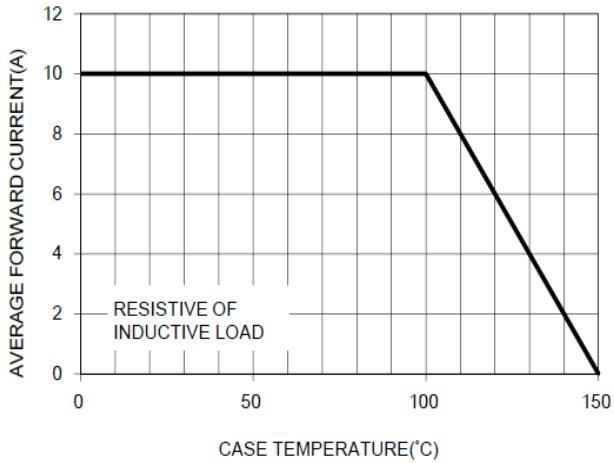


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

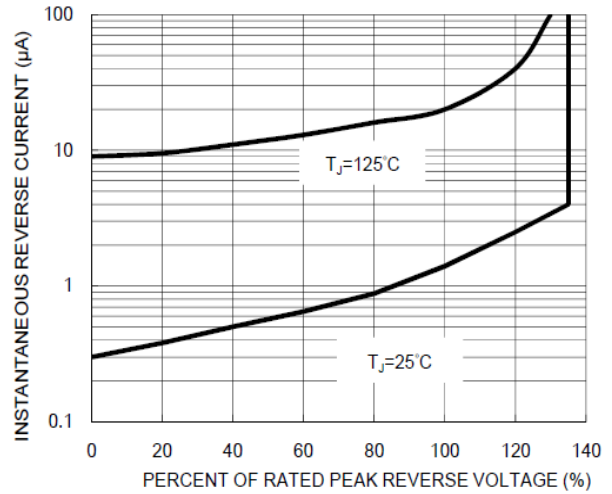


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

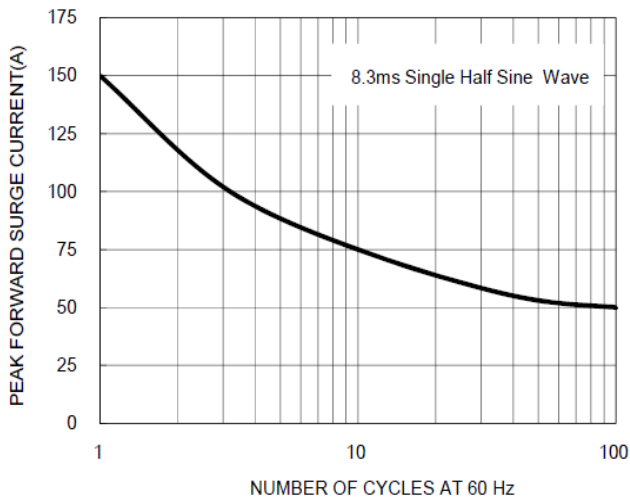


FIG. 4 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

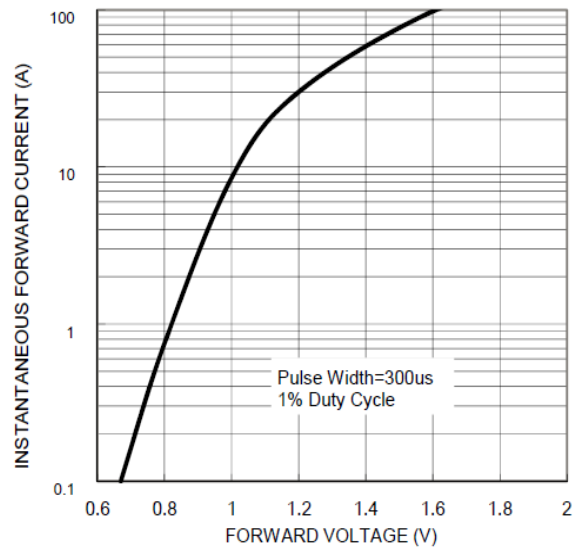
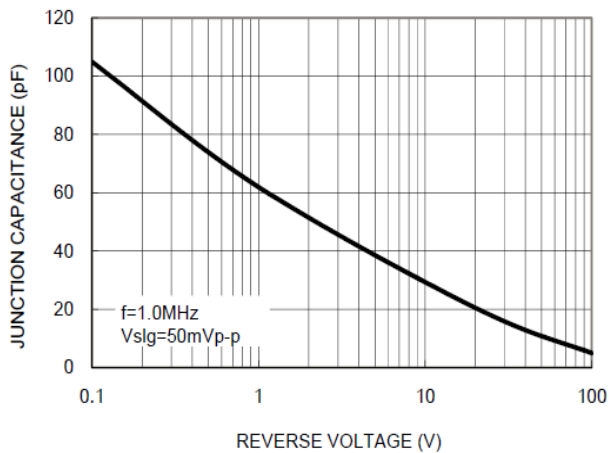


FIG. 5 TYPICAL JUNCTION CAPACITANCE





GPAS1001 THRU GPAS1007

Glass Passivated Rectifiers

Ordering Information

Part No.	Package	Packing Code	Packing
GPAS1001 THRU GPAS1007	D ² PAK	T	50pcs/Tube

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