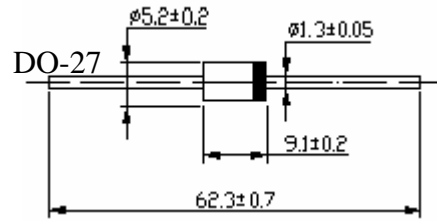


RGP30A THRU RGP30M

1.Features

- High temperature metallurgically bonded construction
- Glass passivated cavity-free junction
- 3.0 amperes operation at $T_A=55^\circ\text{C}$ and with no thermal runaway.
- Typical I_R less than 0.2uA
- Fast switching for high efficiency

FAST RECOVERY RECTIFIER



Dimensions of outlines Unit:mm

2.Maximum Ratings

TYPE NUMBER	Symbols	Units	RGP 30A	RGP 30B	RGP 30D	RGP 30G	RGP 30J	RGP 30K	RGP 30M
Maximum repetitive peak reverse voltage	V_{RRM}	V	50	100	200	400	600	800	1000
Maximum RMS voltage	V_{RMS}	V	35	70	140	280	420	560	700
Maximum DC blocking voltage	V_{DC}	V	50	100	200	400	600	800	1000
Maximum average forward rectified current 9.5mm lead length at $T_A=55^\circ\text{C}$	$I_{F(AV)}$	A	3.0						
Peak Forward Surge Current,8.3ms single half-wave superimposed on rated load(JEDEC method)	I_{FSM}	A	125						
Operating junction temperature range	T_J	$^\circ\text{C}$	-65to+125						
Storage temperature range	T_{stg}	$^\circ\text{C}$	-65to+150						

3.Electrical Characteristics ($T_a=25^\circ\text{C}$ unless otherwise specified)

TYPE NUMBER	Symbols	Units	RGP 30A	RGP 30B	RGP 30D	RGP 30G	RGP 30J	RGP 30K	RGP 30M
Maximum instantaneous forward voltage at 3.0A	V_F	V	1.3Max.						
Maximum DC reverse current at rated DC blocking voltage	$T_a=25^\circ\text{C}$	I_{R1}	μA	5.0Max.					
	$T_a=100^\circ\text{C}$	I_{R2}	μA	100.0Max					
Maximum reverse recovery time (test conditions: $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{RR}=0.25\text{A}$)	T_{rr}	nS	150			250		500	