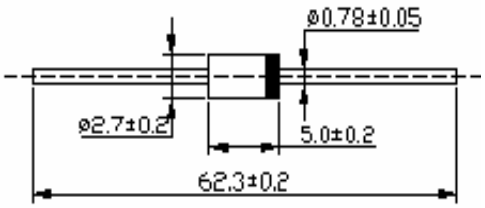
RGP10A THRU RGP10M

FAST RECOVERY RECTIFIER

1.Features

- High temperature metallurgically bonded construction
- Glass passivated cavity-free junction DO-41
- 1.0 ampere operation at TA= 55OC with no thermal runaway.
- Typical IR less than 0.1uA
- Fast switching for high efficiency



Dimensions of outlines Unit:mm

2.Maximum Ratings

TYPE NUMBER	Symbols	Units	RGP 10A	RGP 10B	RGP 10D	RGP 10G	RGP 10J	RGP 10K	RGP 10M
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℃	$I_{F(AV)}$	A	1.0						
Peak Forward Surge Current,8.3ms single half-wave superimposed on rated load(JEDEC method)	I_{FSM}	A	30						
Operating junction temperature range	T_J	℃	-65to+125						
Storage temperature range	T_{stg}	℃	-65to+150						

3.Electronical Characteristics (Ta=25℃ unless otherwise specified)

TYPE NUMBER		Symbols	Units	RGP 10A	RGP 10B	RGP 10D	RGP 10G	RGP 10J	RGP 10K	RGP 10M
Maximum instantaneous forward voltage at1.0A		V_F	V	1.3Max.						
Maximum DC reverse current at rated DC blocking voltage	Ta=25℃	I_{R1}	μA	5.0Max.						
	Ta=100℃	I_{R2}	μA	200Max						
Maximum reverse recovery time(test conditions:IF=0.5A, IR=1.0A, IRR=0.25A)		T_{rr}	nS	150				250	500	