

GR3AB thru GR3MB

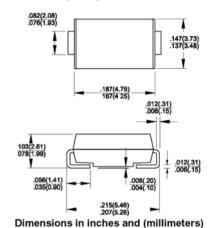
Fast Recovery Surface Mount Rectifiers Reverse Voltage 50 to 1000 Volts Forward Current 3.0 Amperes

Features

- ◆ Fast switching for high efficiency
- ◆ For surface mounted applications
- Glass passivated chip
- ◆ Low reverse leakage current
- ◆ Low forward voltage drop
- ◆ High current capability
- ◆ Plastic material has UL flammability classification 94V-0



DO-214AA (SMB)



Mechanical Data

◆ Case : Molded plastic

◆ Polarity : Indicated by cathode band◆ Weight : 0.003 ounce, 0.093 gram

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Parameter	Symbols	GR3AB	GR3BB	GR3DB	GR3GB	GR3JB	GR3KB	GR3MB	Units
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current @ T _L =75°C	I _(AV)	3.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	FSM	100.0							Amps
Maximum forward voltage at 3.0A DC	V _F	1.3							Volts
Maximum DC reverse current @T_j=25°C at rated DC blocking voltage @T_j=125°C	I _R	5.0 250							uА
Maximum reverse recovery time (Note 1)	t,,	150 250 500					00	nS	
Typical junction capacitance (Note 2)	C _J	50							pF
Typical thermal resistance (Note 3)	R _{eJA} R _{eJL}	50.0 10.0							°C/W
Operating temperature range	T _J	-55 to +150							°C
Storage temperature range	T _{STG}	-55 to +150							°C

Notes:

- 1. Reverse Recovery Test Conditions: $I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A$
- 2. Measured at 1.0MHz and applied reverse voltage of 4.0V D.C.
- 3. Thermal Resistance Junction to Ambient and from Junction to Lead

RATINGS AND CHARACTERISTIC CURVES

