

GROA thru GROM

Fast Recovery Surface Mount Rectifiers Reverse Voltage 50 to 1000 Volts Forward Current 1.5 Amperes

Features

- ◆ For surface mounted application
- ◆ Glass passivated junction chip
- ◆ Built-in strain relief, ideal for automated placement
- Plastic material used carries Underwriters Laboratory Classification 94V-O
- ◆ Fast switching for high efficiency
- High temperature soldering: 250°C/10 seconds at terminals

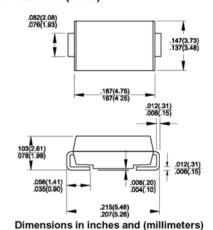
Mechanical Data

Cases: Molded plasticTerminals: Solder plated

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



DO-214AA (SMB)



Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

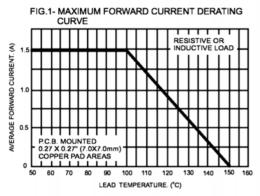
For capacitive load, derate current by 20%

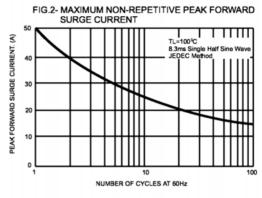
Parameter	Symbols	GROA	GROB	GROD	GROG	GROJ	GROK	GROM	Units
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current See Fig. 1 @ T,=100°C	I _(AV)	1.5							Amps
Peak forward surge current, 8.3 ms single half sine- wave superimposed on rated load (JEDEC Method)	I _{FSM}	50.0							Amps
Maximum instantaneous forward voltage @ 1.5A	V _F	1.3							Volts
Maximum DC reverse current @T _A =25°C at rated DC blocking voltage @T _A =125°C	I _R	5.0 200							uА
Maximum reverse recovery time (Note 1)	t _{rr}	150 250 500					00	nS	
Typical junction capacitance (Note 2)	C,	50							pF
Typical thermal resistance (Note 3)	R _{eJA} R _{eJL}	55.0 18.0						°C/W	
Operating junction temperature range	T	-55 to +150							°C
Storage temperature range	T _{STG}	-55 to +150							°C

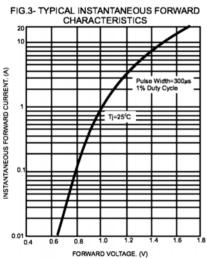
Notes: 1. Reverse Recovery Test Conditions: $I_p=0.5A$, $I_p=1.0A$, $I_{pp}=0.25A$

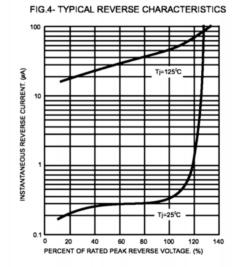
- 2. Measured at 1 MHz and Applied V_p=4.0 Volts
- 3. Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B. with 0.27" x 0.27" (7.0 x 7.0 mm) Copper Pad Areas.

RATINGS AND CHARACTERISTIC CURVES









REVERSE VOLTAGE. (V)

FIG.5- TYPICAL JUNCTION CAPACITANCE